

KV-21XRD/21XRTD

RM-664

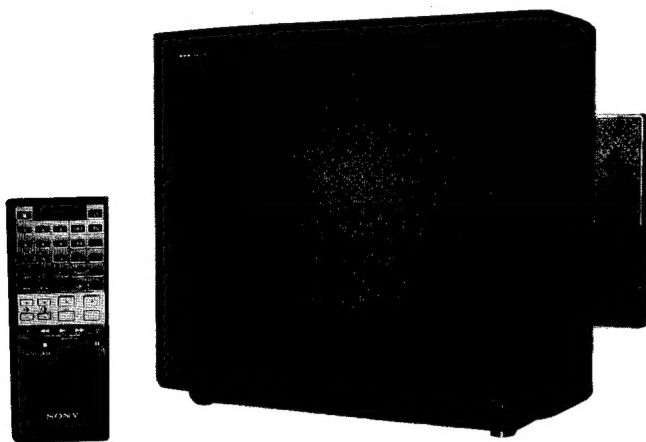
SERVICE MANUAL

AEP Model

KV-21XRD Chassis No. SCC-784A-A

KV-21XRTD Chassis No. SCC-784C-A

July, 1986



SX

CHASSIS

SPECIFICATIONS

Note: The service manual for RM-664 has been issued separately.

Television system	CCIR B, G and H	Outputs	Audio output connector (pin)
Colour system	PAL		Line output
Channel coverage	VHF channels A-H2 UHF channels 21-69		Variable 0—2 Vrms (max.)
Programming system	30 programmes		Impedance less than 1 kilohm
Picture tube	Automatic programming digital tuning		External speaker terminals (2-pin DIN)
	Approx. 54.5cm (21 inches)		For 16 ohm speakers
	114-degree deflection Trinitron system	Power requirements	Headphones jack (stereo phone jack)
	(Approx. 51 cm picture measured diagonally)	Power consumption	220—240 V ac, 50 Hz
Antenna	75-ohm standard antenna socket (BS3041/IEC169-2)	Dimensions	98Wh
Speakers	Two speakers	Weight	(Approx. 6W in standby condition)
	Approx. 10 cm dia.	Accessory supplied	Approx. 657 x 453 x 480 mm (w/h/d)
Audio output	5W + 5W (with 10% harmonic distortion)		Approx. 26 kg
	15W + 15W (music power)		RM664 Remote Commander (1)
Input	21-pin connector	Optional accessory OPK-113 BGS teletext adaptor.	
	in accordance with the requirements of CENELEC Standard	(KV-21XRD ONLY)	
	21-Pin connector RGB input unconnected	Design and specifications are subject to change without notice.	
Remote control system infrared control			
Power requirements	3 V dc		
	2 batteries IEC designation R03 (size AAA)		
Dimensions:	Approx. 67 x 18 x 174 mm (w/h/d)		
Weight	Approx. 160g (3.5 oz) incl. batteries		
Accessories supplied	IEC designation R03 battery (2)		



TRINITRON® COLOR TV


SONY®

CTV

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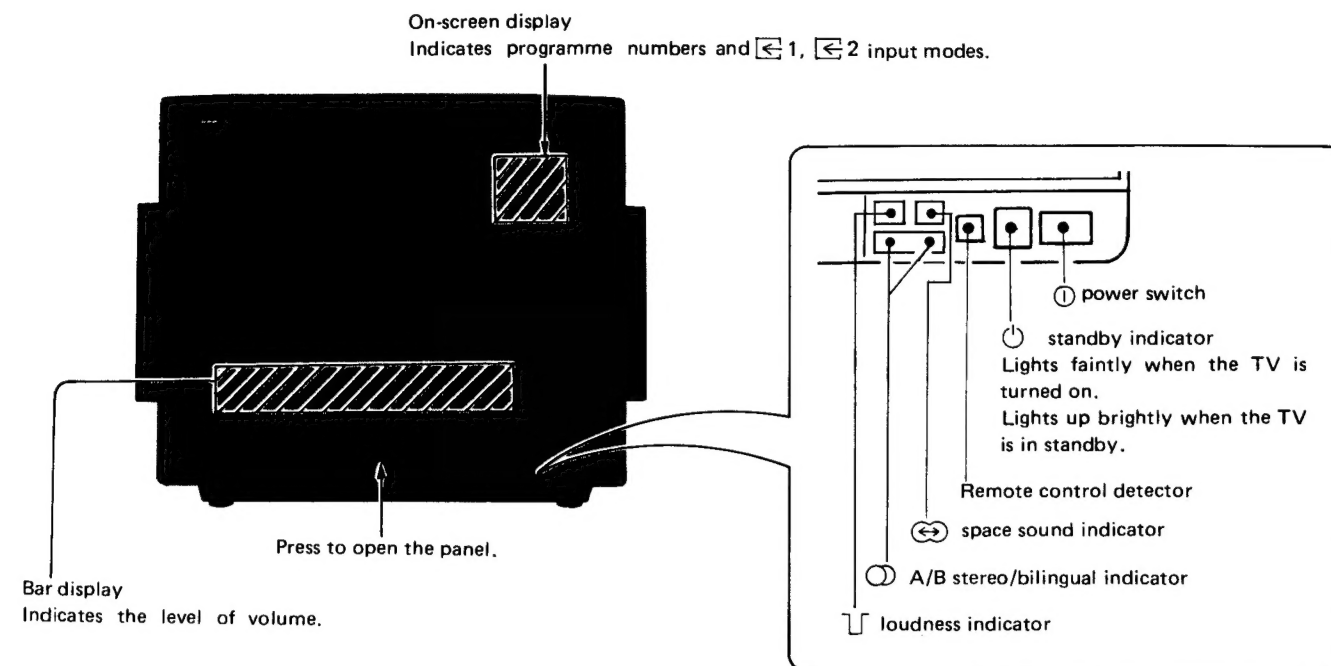
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SAFETY-RELATED COMPONENT WARNING !!

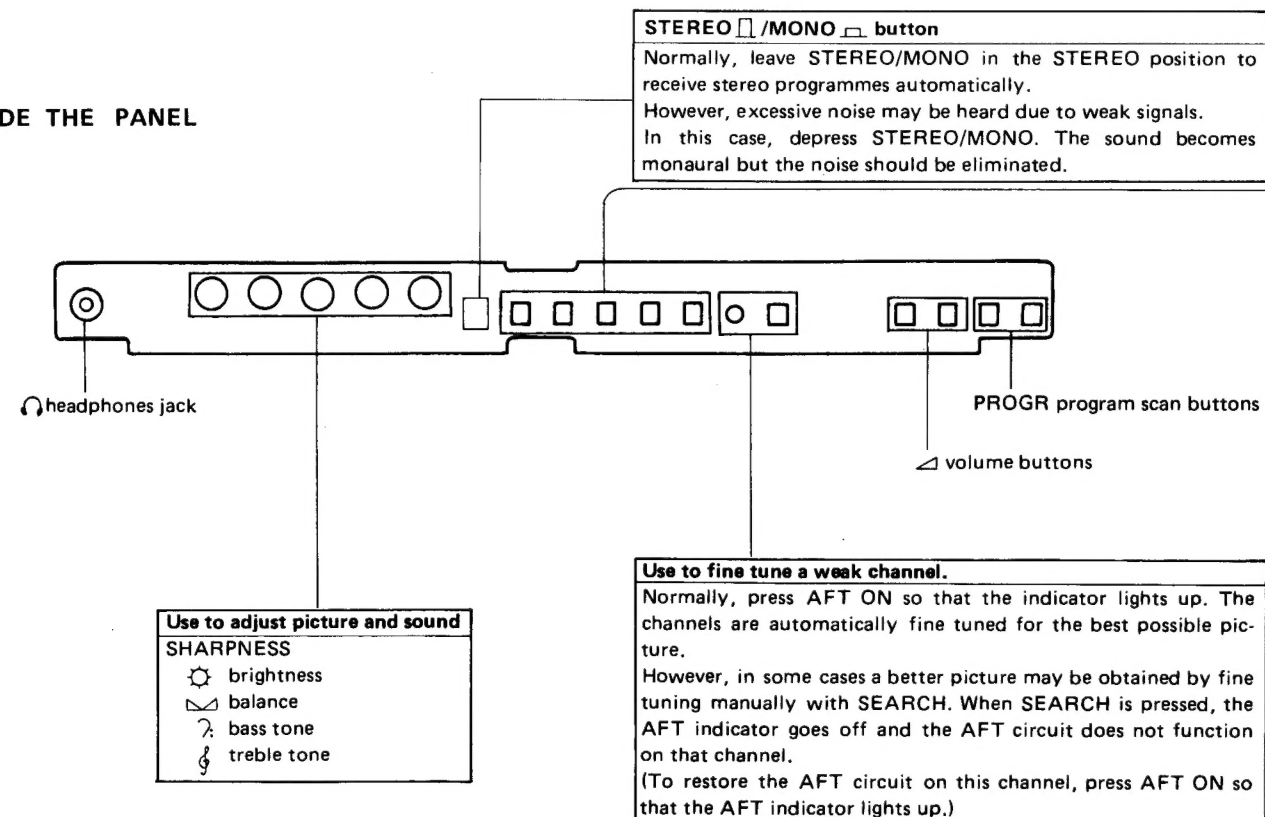
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

1-1. FUNCTION OF CONTROLS



INSIDE THE PANEL



CONNECTING OTHER EQUIPMENT

Rear of the TV		Use
L/G/S	left external speaker terminal	Connect to external speakers. The TV speakers will be disconnected.
R/D/D	right external speaker terminal	
R/D/D	right audio output jack	Connect to audio equipment.
L/G/S	left audio output jack	
1	21-pin connector (CENELEC standard)	Connect to a VTR, micro computer, etc. The picture of the TV channel being received is always output. The picture of 2 can be watched while recording a TV program with the VTR connected to 1
2	21-pin connector (without RGB input)	Connect to a second VTR. The picture displayed on the screen is always output. The picture coming in through can be recorded on to the VTR connected to 1 while monitoring the picture.
	antenna socket	Connect to the antenna

VTR operation using the supplied Commander

To control an 8mm VTR, set the switch inside the battery compartment to IR. Set to the unmarked position to control other VTR's.

Remote operation of the VTR is limited to the features and functions of the VTR. For further details refer to the VTR manual.

USE TO TUNE IN RECEIVABLE CHANNELS

To tune in all channels automatically:

- 1 Press PRESET.
 - 2 Press PROGR to select the program position from which tuning is to start.
 - 3 Press AUTO PROGR.
- The channels will be tuned in and memorized in consecutive positions, beginning from the program position selected in step 1.
- When tuning has been completed, the set returns to the position where tuning started.

To tune in a particular channel in any desired program position:

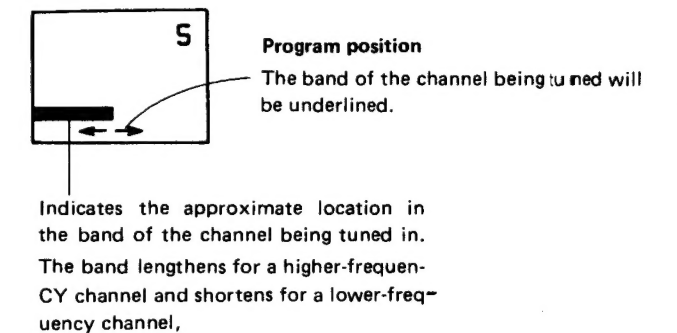
- 1 Press PRESET.
- 2 Press PROGR to select the desired position.
- 3 Press CLEAR.
- 4 Press SEARCH repeatedly until the desired channel appears.
- 5 Repeat steps 2 to 4 for all desired channels.
- 6 Press PRESET again.

To skip unused program positions:

- 1 Press PRESET.
- 2 Press PROGR to select the unused position.
- 3 Press CLEAR.
- 4 Repeat steps 2 and 3 for all unused positions.
- 5 Press PRESET again.

This program position will be skipped whenever PROGR ON the commander is pressed.

ON-SCREEN DISPLAY WHILE TUNING



1-2. VIEWING TELETEXT

The numbers and symbols on the Commander for the teletext mode are in green.

OPERATION

- 1 Select the TV channel for the desired teletext service.
- 2 Press TEXT/MIX to display the teletext service.

To return to the TV mode, press TV.




To display the index page
Press INDEX.

To display the desired teletext page
Key in the three digits for the desired page using the number buttons.


To request a higher-numbered or lower-numbered page
Press PAGE + or -.

To superimpose the teletext page on the TV picture
Press TEXT/MIX.

To hold a teletext page so that it cannot be updated
Press HOLD. To resume normal teletext reception, press TEXT/MIX.

To enlarge the teletext display
Press  /  / . Press once to enlarge the upper half of the display; press twice to enlarge the lower half of the display; press three times to return to the normal display.

To reveal the answers to a quiz
Press REVEAL.

To adjust the brightness of the teletext display
Press .

To display the teletext service of another channel

- 1 Press TV to return to the TV mode.
- 2 Select the desired TV channel.
- 3 Press TEXT/MIX.

To have a requested page broadcast at a predetermined time

- 1 Request time coded page
- 2 Press TP ON. The time display in the top right hand corner of the screen starts flashing.
- 3 Enter your request time with the number buttons, using four digits. For example, 07:30.

To cancel the request, press TP OFF.

To watch a TV program while waiting for the requested page to be displayed

- 1 Request new page.
- 2 Press TEXT CL to display the TV program. The TV channel cannot be changed.

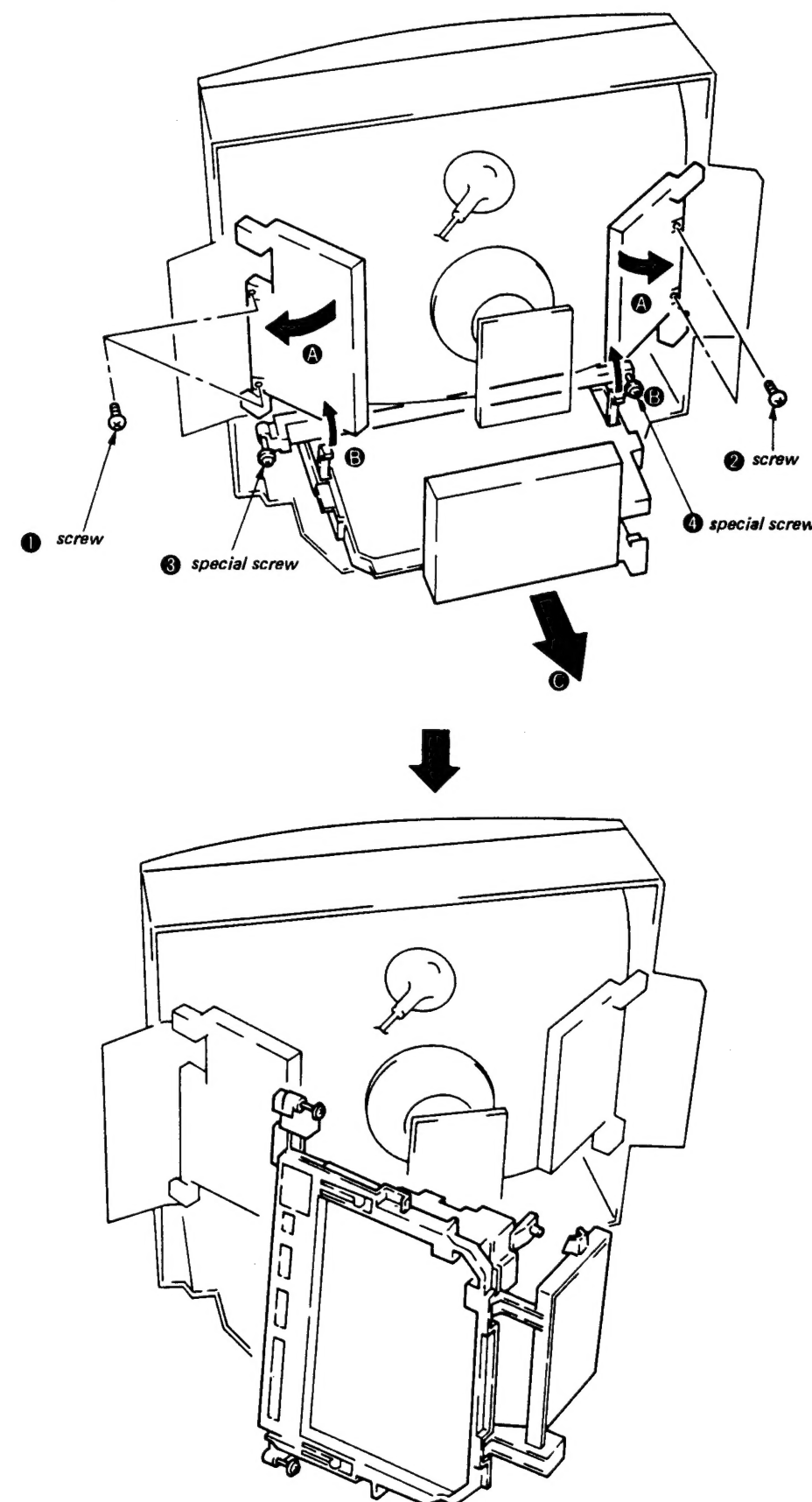
When the requested page has been captured by the adaptor, the page number is indicated in the top left hand corner of the screen. To display this page, press TEXT/MIX.

Notes

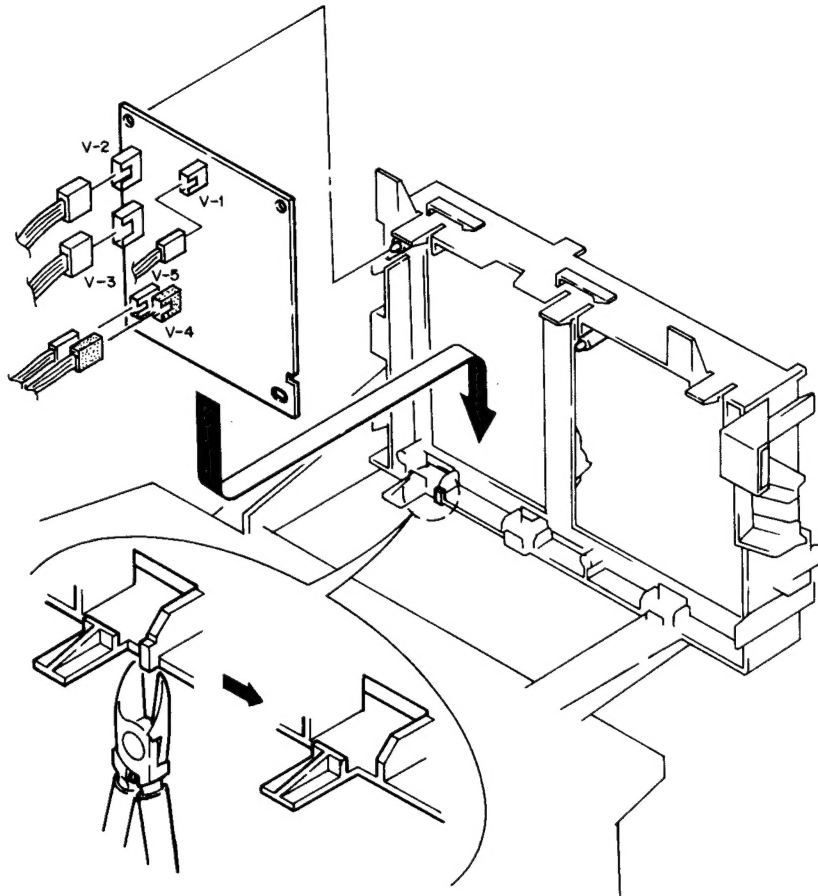
To prevent misoperation, keep AFT ON switched on in the teletext mode.

SECTION 2
SERVICE POSITION

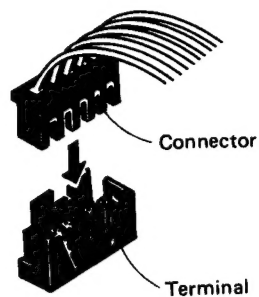
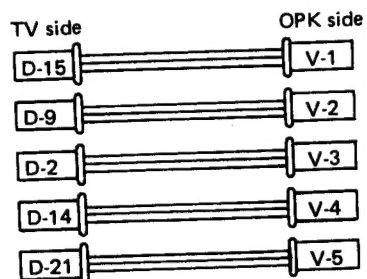
2-1. SERVICE POSITION



2-2. OPK-113 BGS ATTACHING (KV-21XRD ONLY)

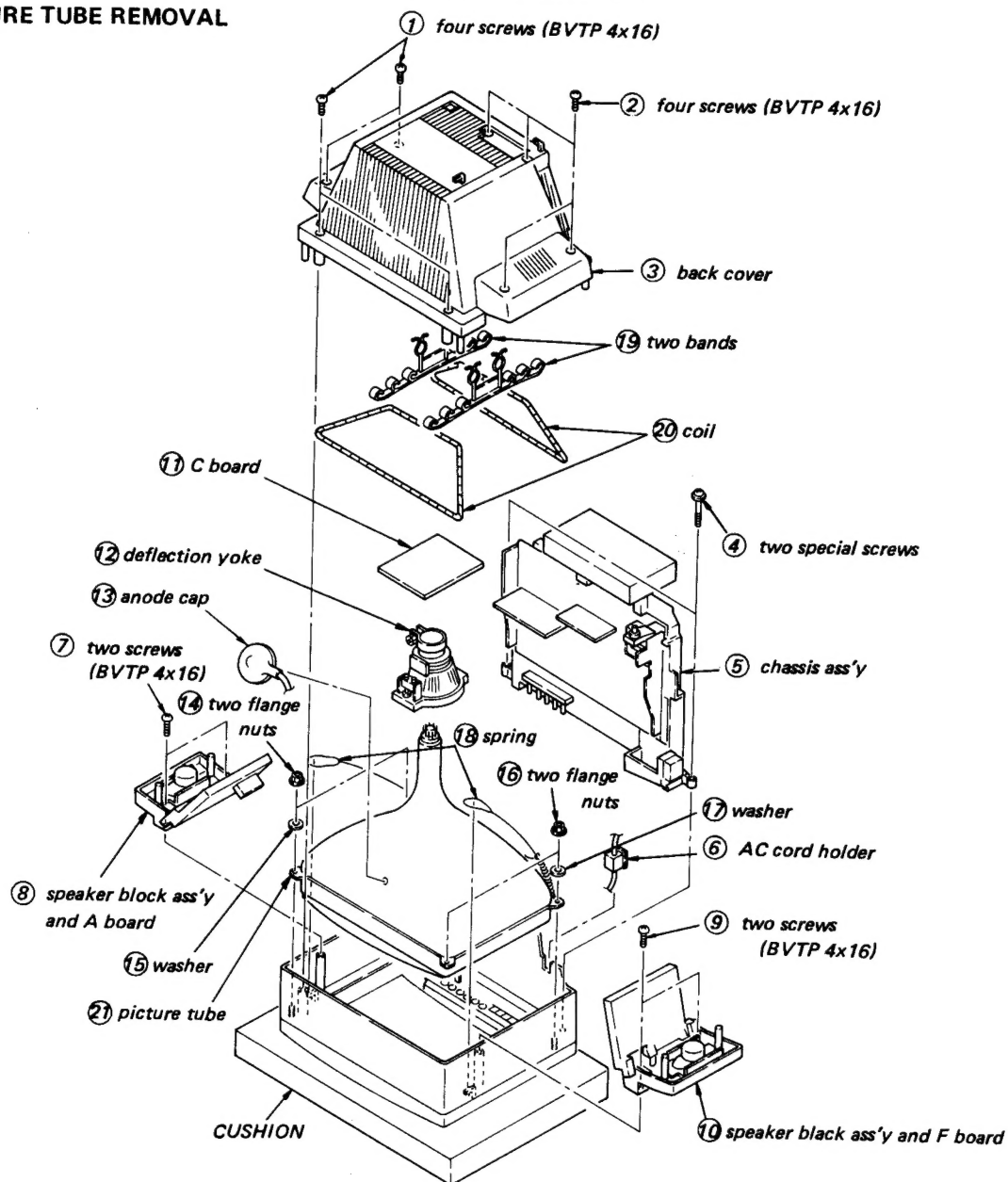


Connect to the same number terminal as the connector.

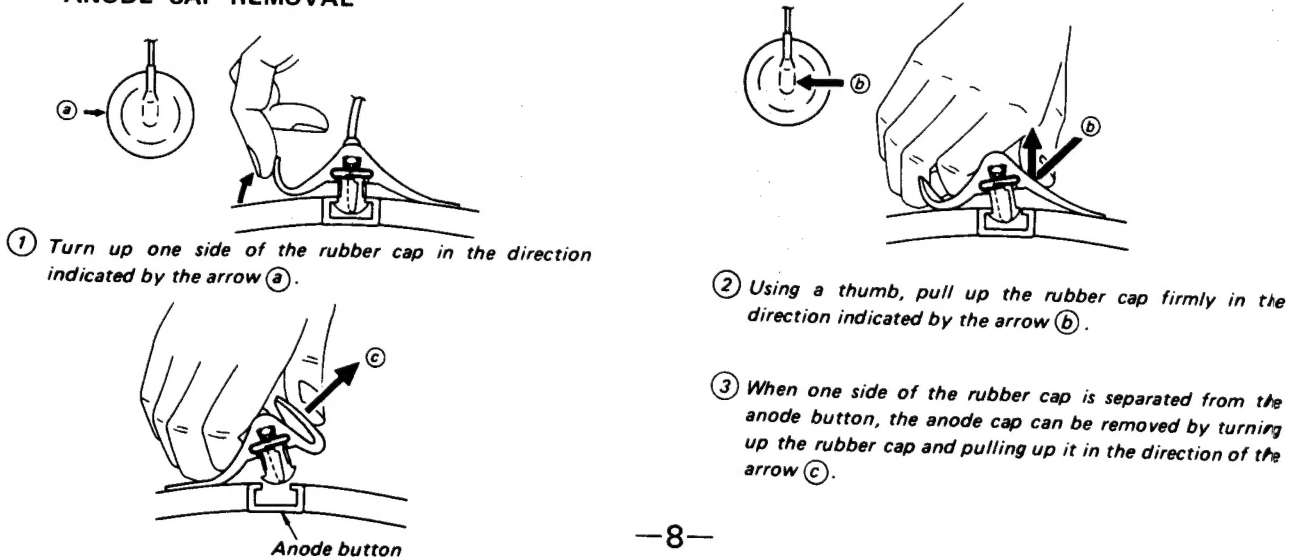


SECTION 3 DISASSEMBLY

3-1 PICTURE TUBE REMOVAL



• ANODE CAP REMOVAL



SECTION 4

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

- PICTURE control80% (or Normal by Commander)
- BRIGHTNESS control50%

Perform the adjustments in order as follows:

- Beam Landing
- Convergence
- Focus
- White Balance

Note: Test Equipment Required.

- Colour-bar/pattern Generator
- Degausser

4-1. BEAM LANDING

- Input a raster signal with the pattern generator. PICTURE } normal
BRT }
- Turn the raster signal of the pattern generator to red.
- Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 4-1, Fig. 4-2)
- Move the deflection yoke forward, and adjust so that the entire screen becomes red.
- Switch over the raster signal to blue and green and confirm the condition.
- When landing at the corners is not right, adjust by using the magnet. (Fig. 4-3)
- When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

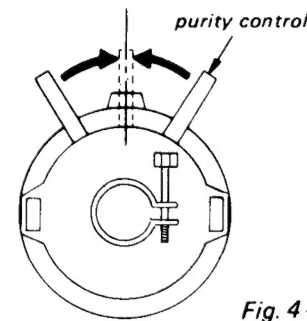


Fig. 4-1.

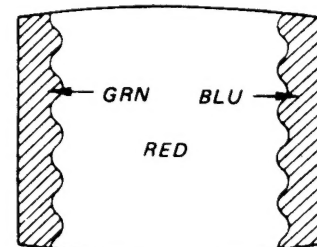


Fig. 4-2.

Disk magnets or rotatable disk magnets correct these areas (a-d).

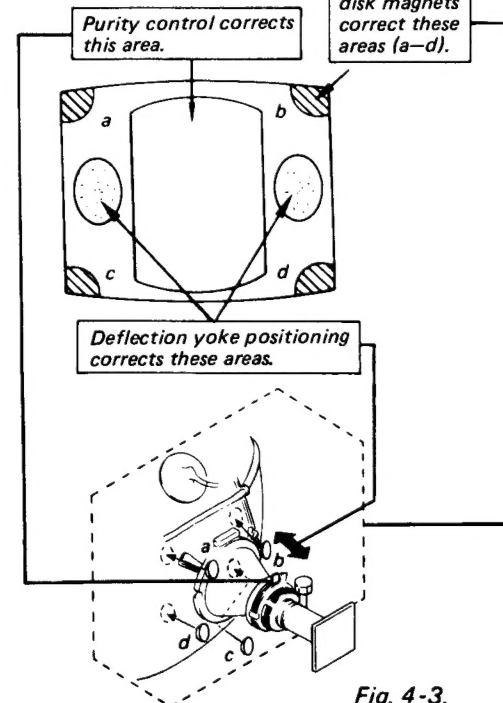


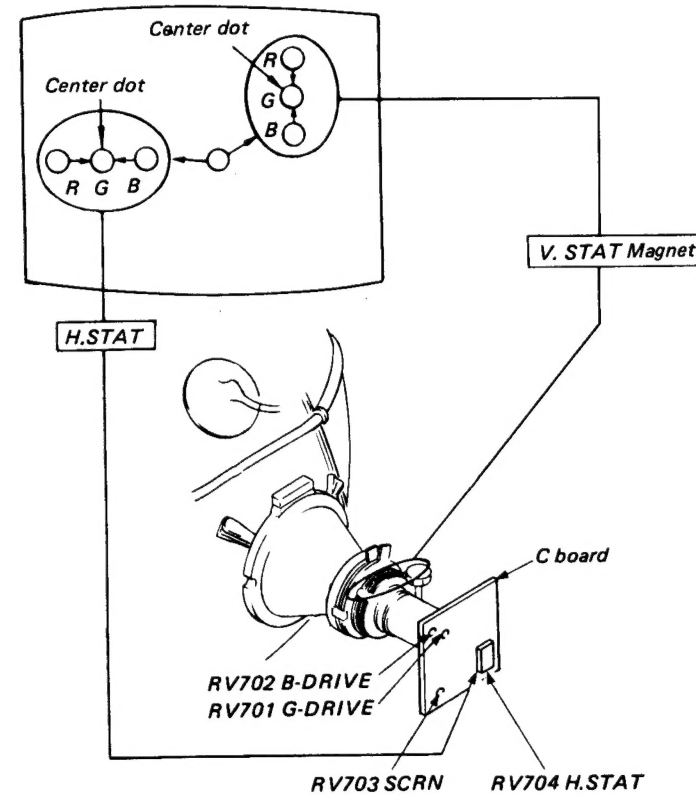
Fig. 4-3.

4-2. CONVERGENCE

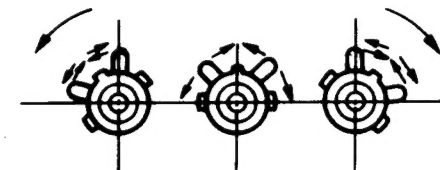
Preparation:

- Before starting, perform FOCUS, H. SIZE, V. SIZE and V. LIN adjustments.
- Set BRIGHTNESS control to fully counterclockwise.
- Feed in the dot pattern.

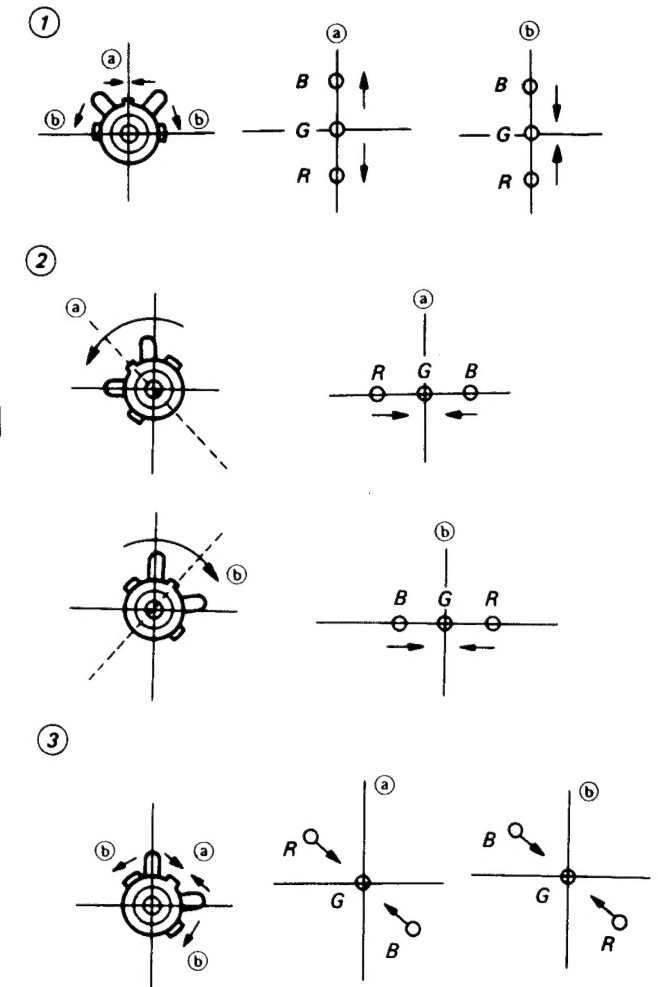
(1) Horizontal and Vertical Static Convergence



- Adjust H. STAT VR to coincide red, green and blue dots on the center of screen (Horizontal movement)
- Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
- If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



- When the V. STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.

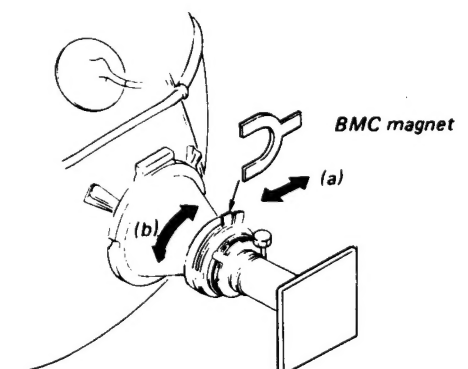


If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.



(2) Dynamic Convergence

- Before starting Static Convergence
- 1. Loosen deflection yoke mounting screw.
- 2. Remove deflection yoke mounting screw.

4-4. WHITE BALANCE

Auto Cut Off

G2 ADJ.

- Receive
- Set PIC, R, G, B
- Connect
- Adjust

W/B ADJ.

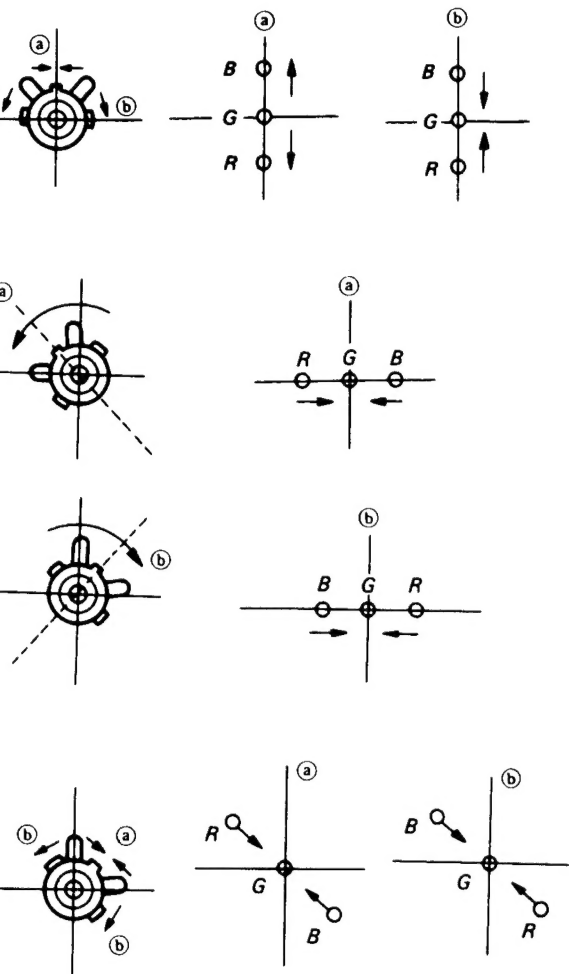
- Receive
- Set: PIC
- CO

(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
- Loosen deflection yoke screw.
- Remove deflection yoke spacers.
- Move the deflection yoke for best convergence as shown below.
- Tighten the deflection yoke screw.
- Install the deflection yoke spacers.

When the V. STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.

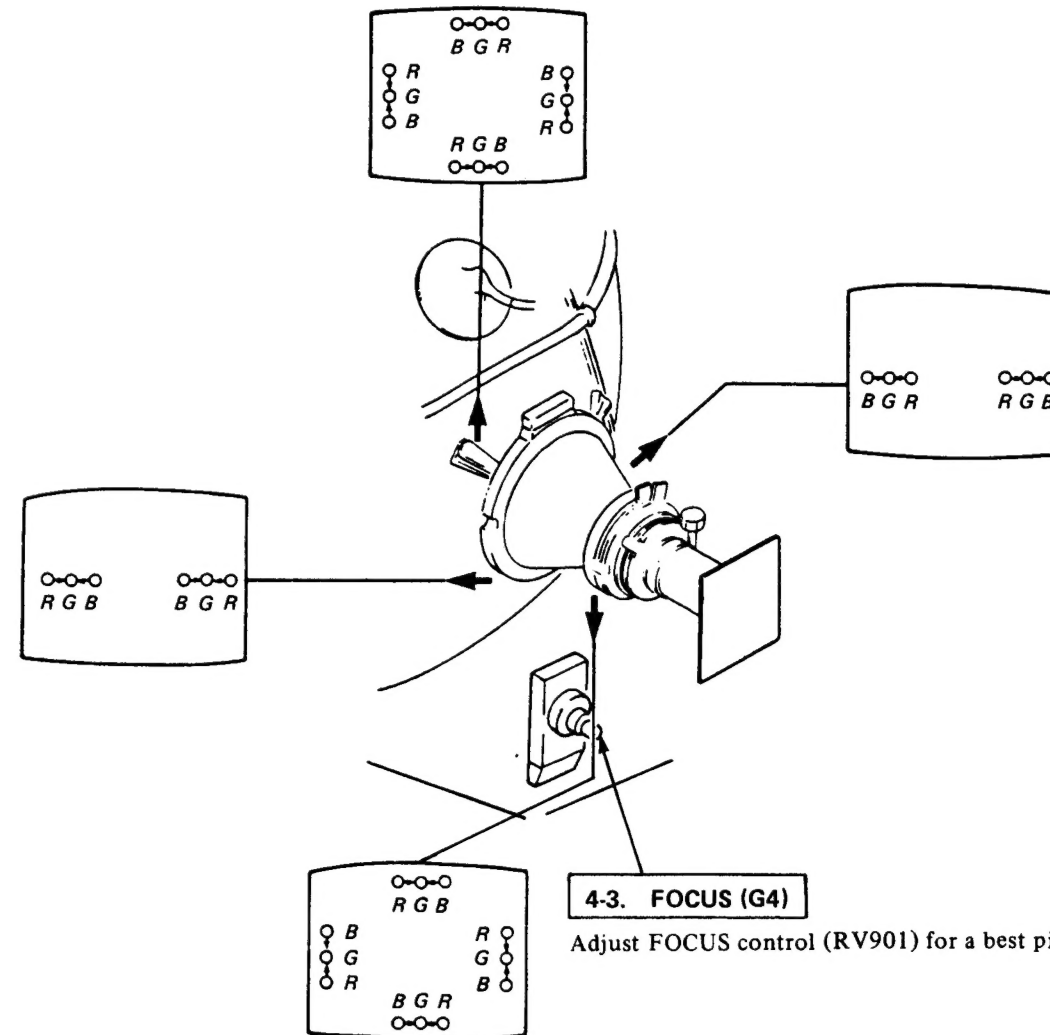
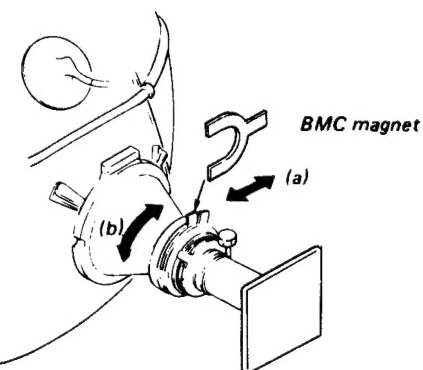


blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

either case, repeat Beam Landing Adjustment.



4-4. WHITE BALANCE

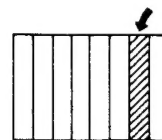
Auto Cut Off White Balance Adjustment.

G2 ADJ.

- Receive a dot signal.
- Set PIC, BRT VR's to minimum.
- Connect external power supply 170V DC to R,G,B cathode.
- Adjust G2 VR to the point where retrace glows faintly.

W/B ADJ.

- Receive color bar.
- Set: PIC, BRT: MAX
COL : MIN



- Adjust B,G DRIVE VR's to get white balance.

- Set: PIC, COL: MIN

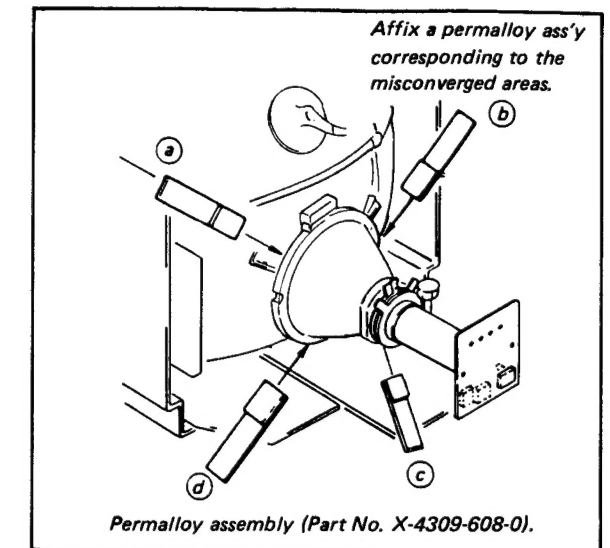
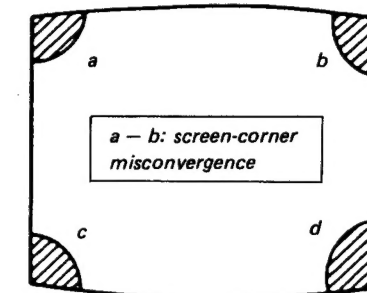
BRT : CENTER

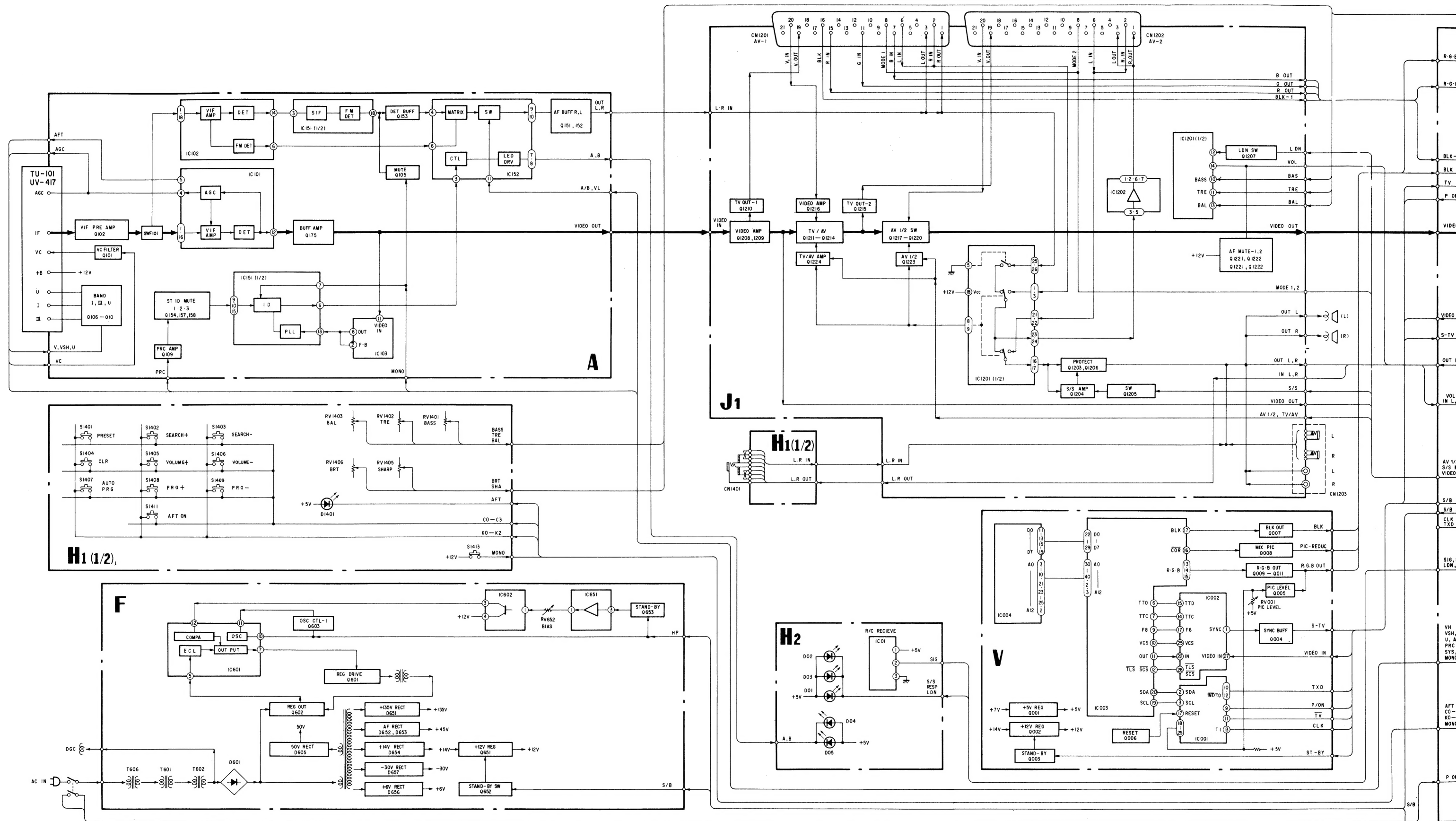
Adjust SUB BRT. to the point where the arrow indicates.

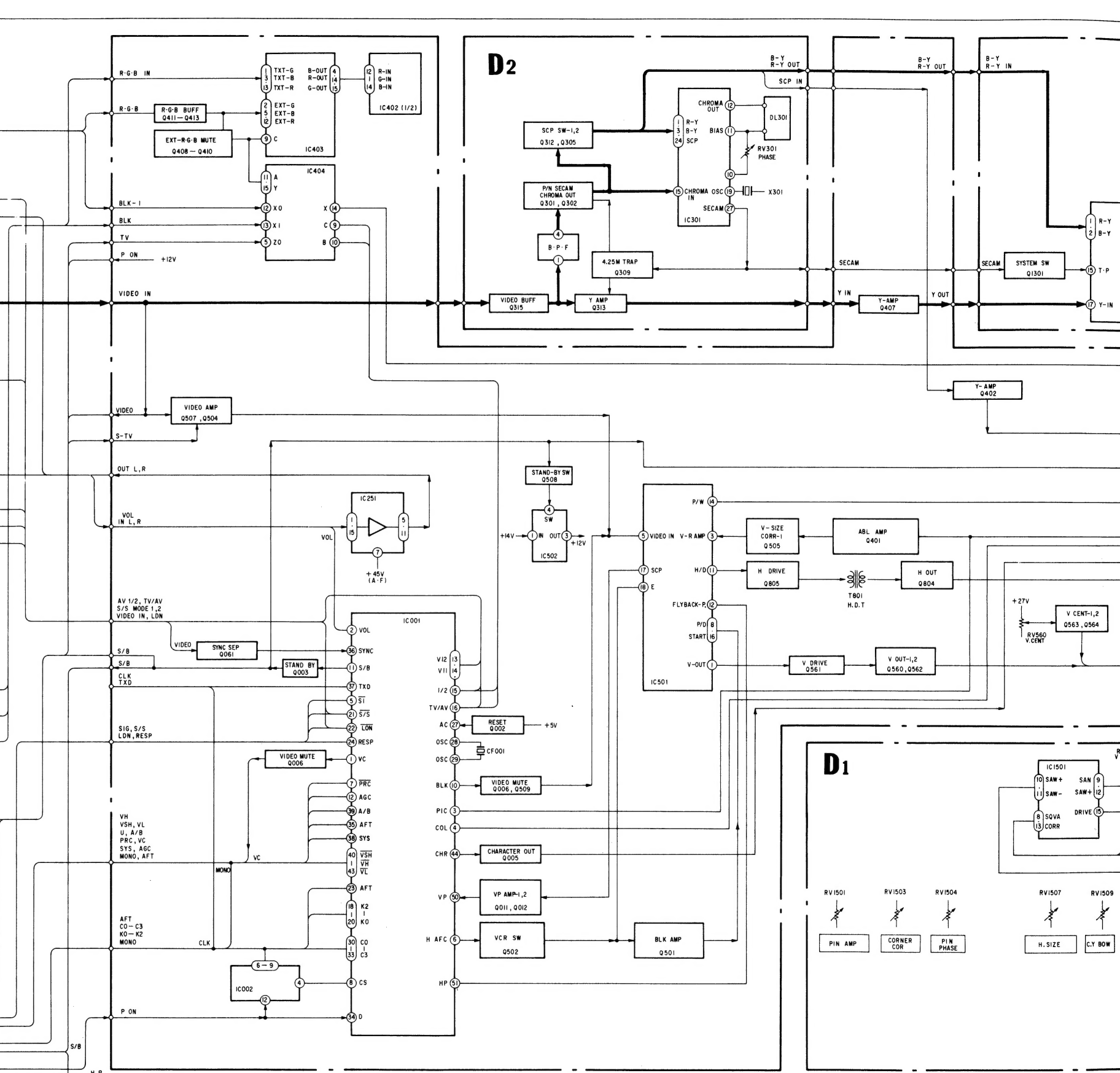
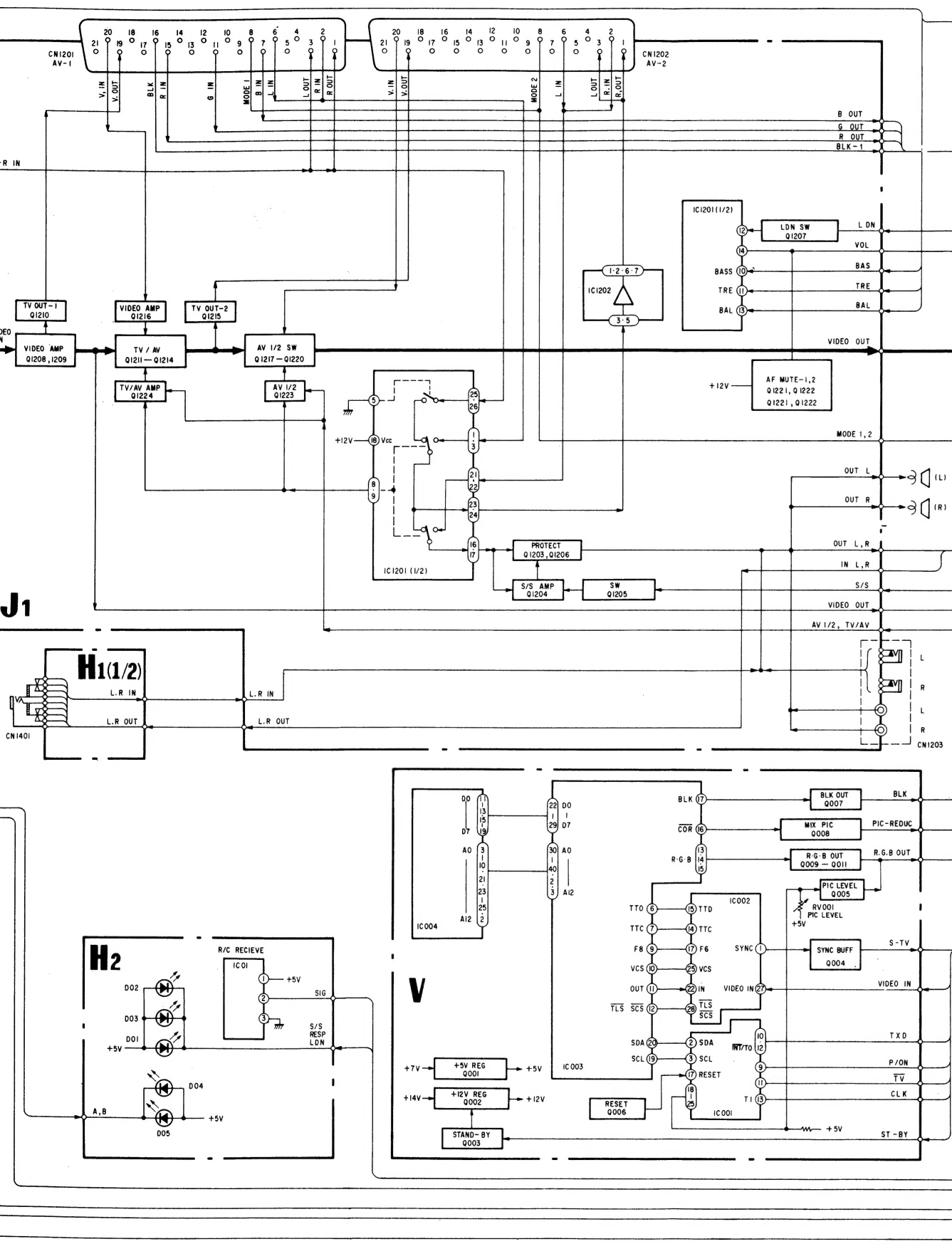
SIMPLE ADJUSTMENT METHOD

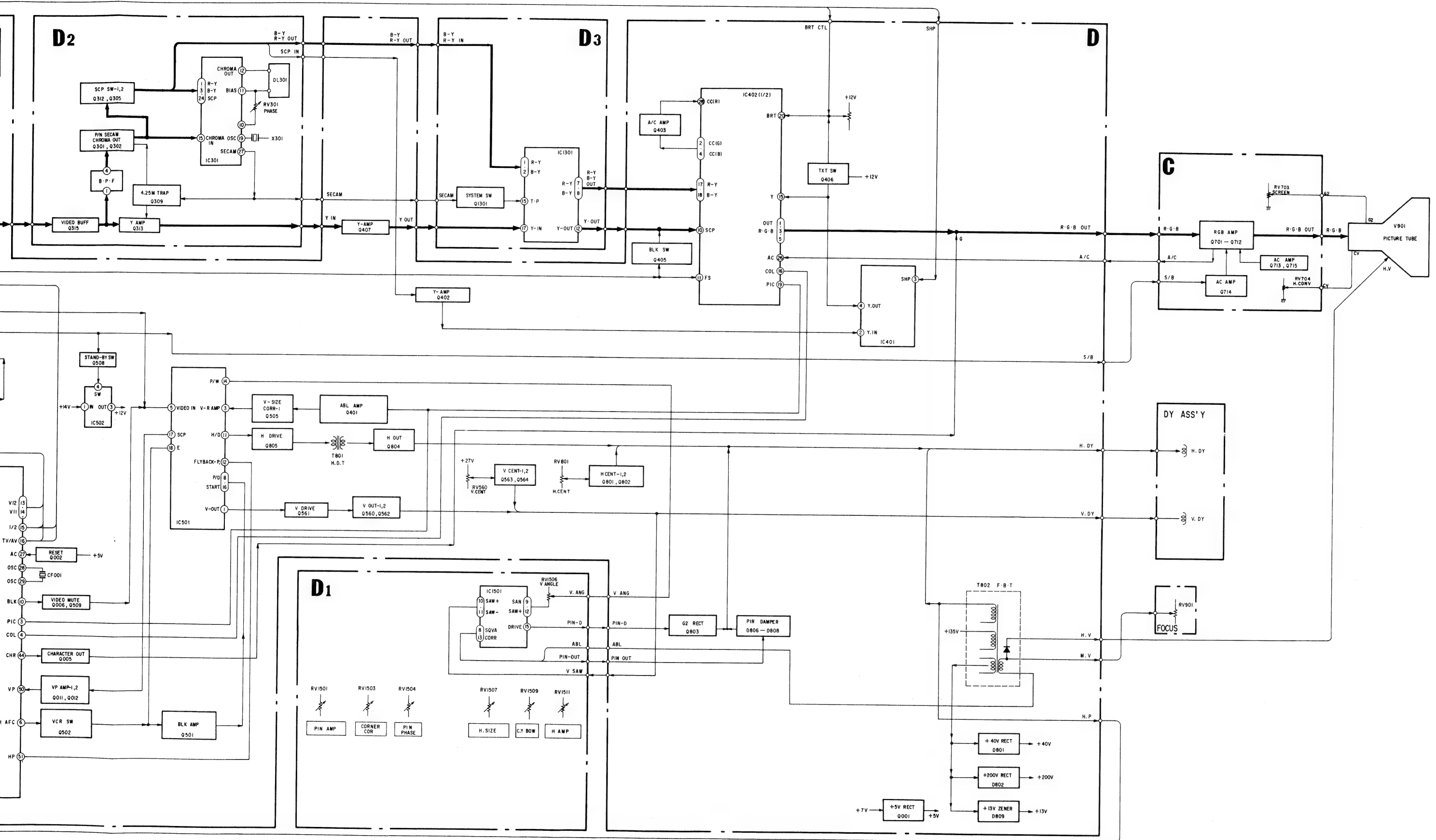
- Receive an air signal.
- Set PIC, BRT, COL to MAX.
- Set B,G DRIVE VR's to mechanical center.
- Turn G2 VR fully to the left and right and adjust to the center of the range over which color does not change.

(3) Screen-corner Convergence



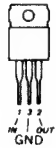
SECTION 5
BLOCK DIAGRAM



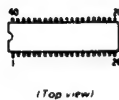


SECTION 6 SEMICONDUCTORS

AN78M12R



SAA5240A



(Top view)

2SA1091
2SA933S
2SC1740
2SC2551
BF485-AMMO
JA101
JC501



2SA1175
2SC2785



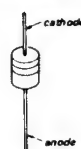
2SD1497
2SD1497-02
2SD1497-06



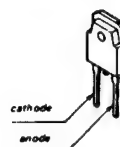
2SD795A



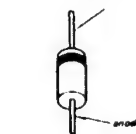
1SS119
1SS133
1SS148



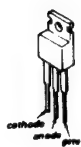
ERC26-15S
GH3F
V19E



ERD29-08J



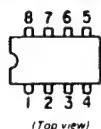
S6344G



TLP581

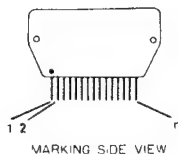


BA4558
HA17558
NJM4558D
 μ PC4558C



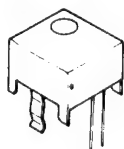
(Top view)

STK4362

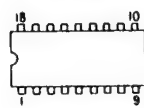


MARKING SIDE VIEW

BX1387

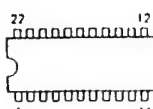


TDA2546A
TDA2579
TDA2595
TDA4560
TDA4565



(Top view)

TDA4940



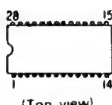
(Top view)

μ PC574J



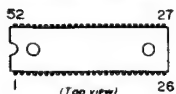
anode cathode

CX20199
MAB8441P-T060
SAA5230
TC5564PL-15
TC5565PL-15
TDA3505
TDA3505-V7
TDA4555



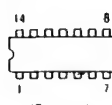
(Top view)

M50436-511SP
M50436-515SP



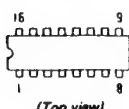
(Top view)

M58655P
TDA4944
 μ PC1394C



(Top view)

MC74HC4053N
TC74HC4053P
TDA1082
TDA3541



(Top view)



anode cathode

2SC2026



anode cathode

CTU-12S



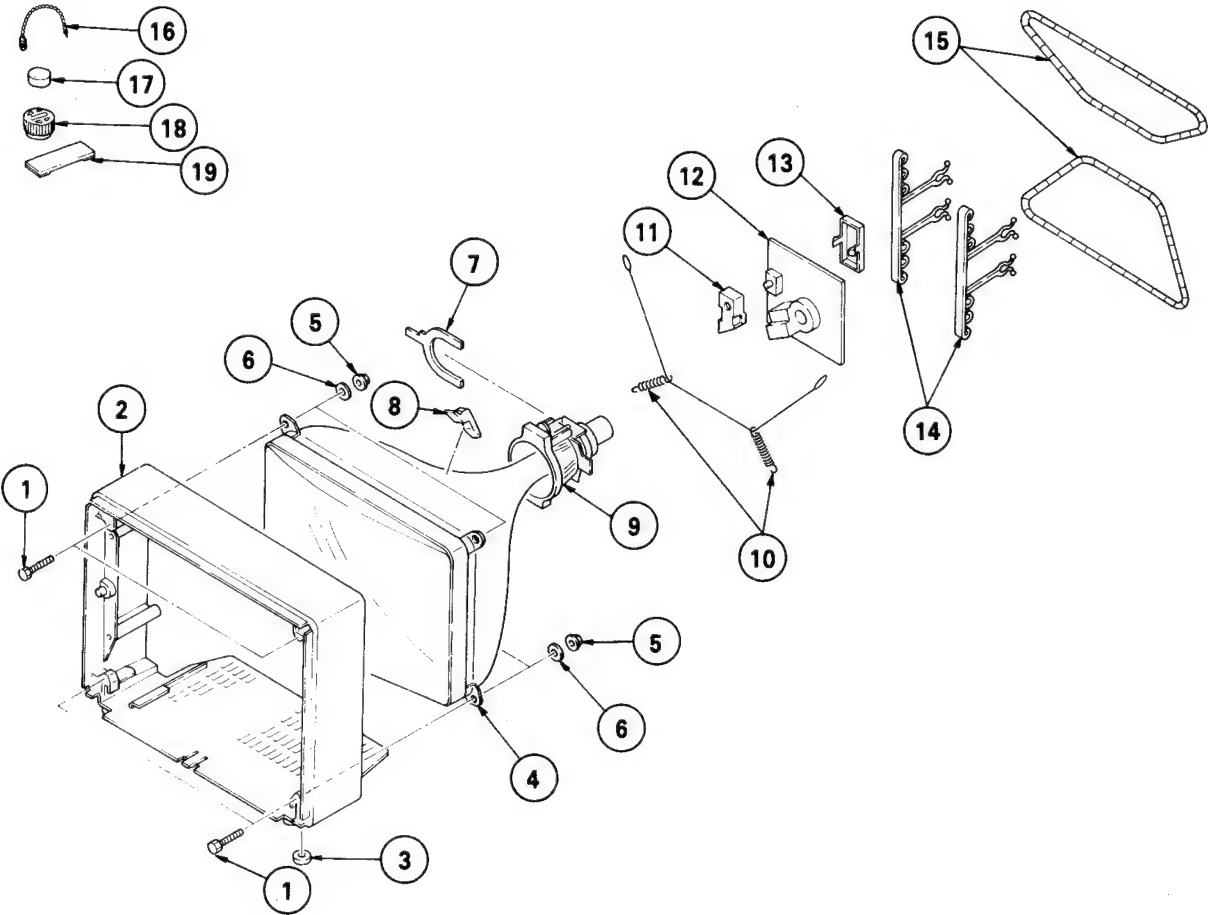
SECTION 7
EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

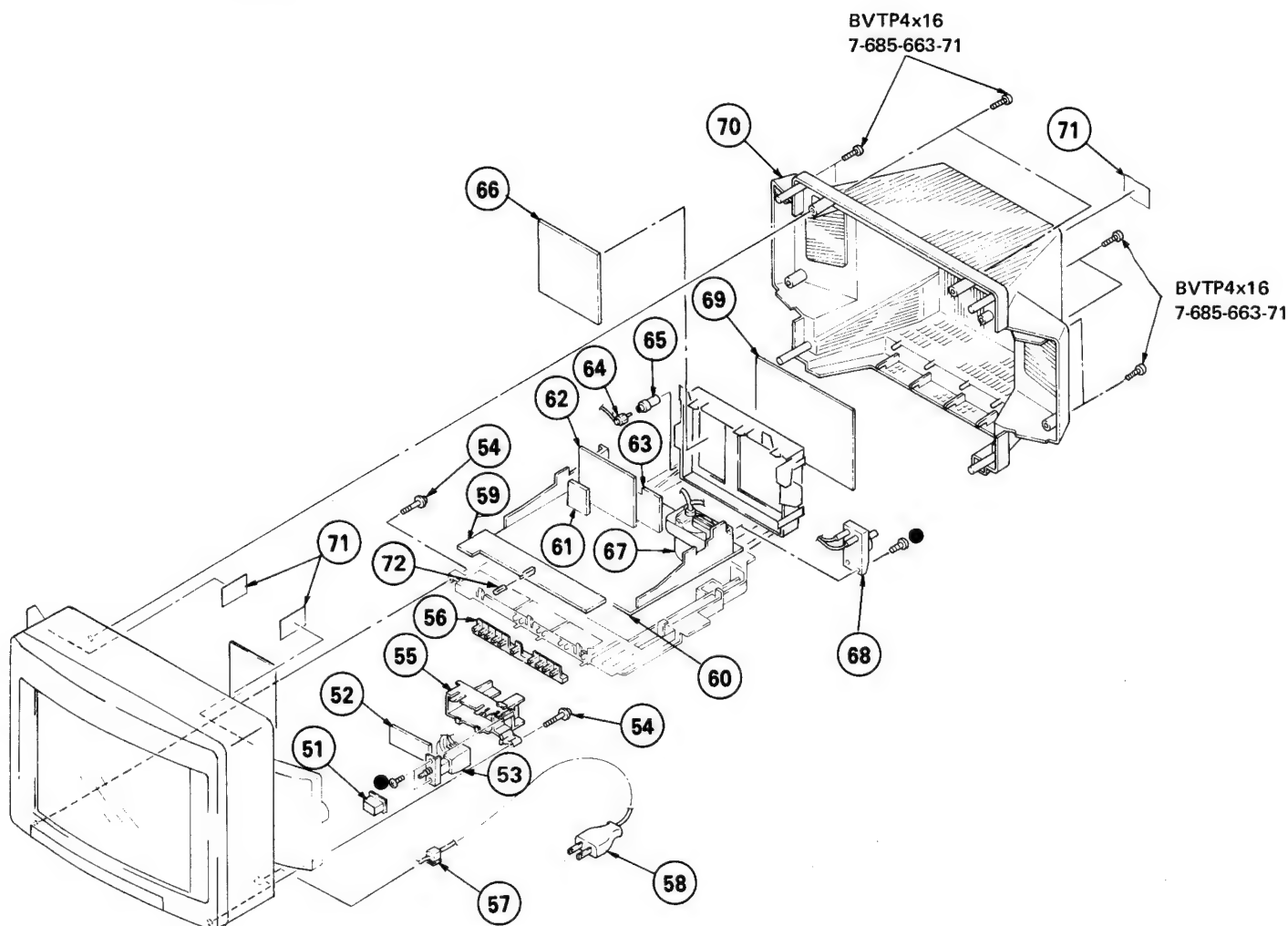
7-1. PICTURE TUBE



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	3-703-025-12	BOLT M5, HEXAGON-HEAD		10	4-369-318-00	SPRING, TENSION	
2	4-380-631-01	CABINET (FOR GRAY)		11	*4-379-167-01	COVER (MAIN), CV	
	4-380-631-11	CABINET (FOR IVORY)		12	*A-1330-686-A	C BOARD, COMPLETE	
3	4-809-913-XX	FOOT, F		13	*4-379-160-01	COVER (REAR LID), CV	
4	Δ 8-736-954-05	CRT (A51JK060X)		14	*4-380-620-01	BAND, DEGAUSS COIL	
5	4-306-034-00	FLANGE NUT, (B) 5MM		15	Δ 1-426-280-11	COIL, DEMAGNETIZATION	
6	4-373-615-02	WASHER, CRT POSITIONING		16	4-308-870-00	CLIP, LEAD WIRE	
7	1-452-277-00	MAGNET, BMC		17	1-452-032-00	MAGNET, DISK; 10MM ϕ	
8	3-703-003-00	SPACER, DY		18	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
9	Δ 1-451-290-11	DEFLECTION YOKE (SY-153F)		19	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	

7-2. REAR COVER

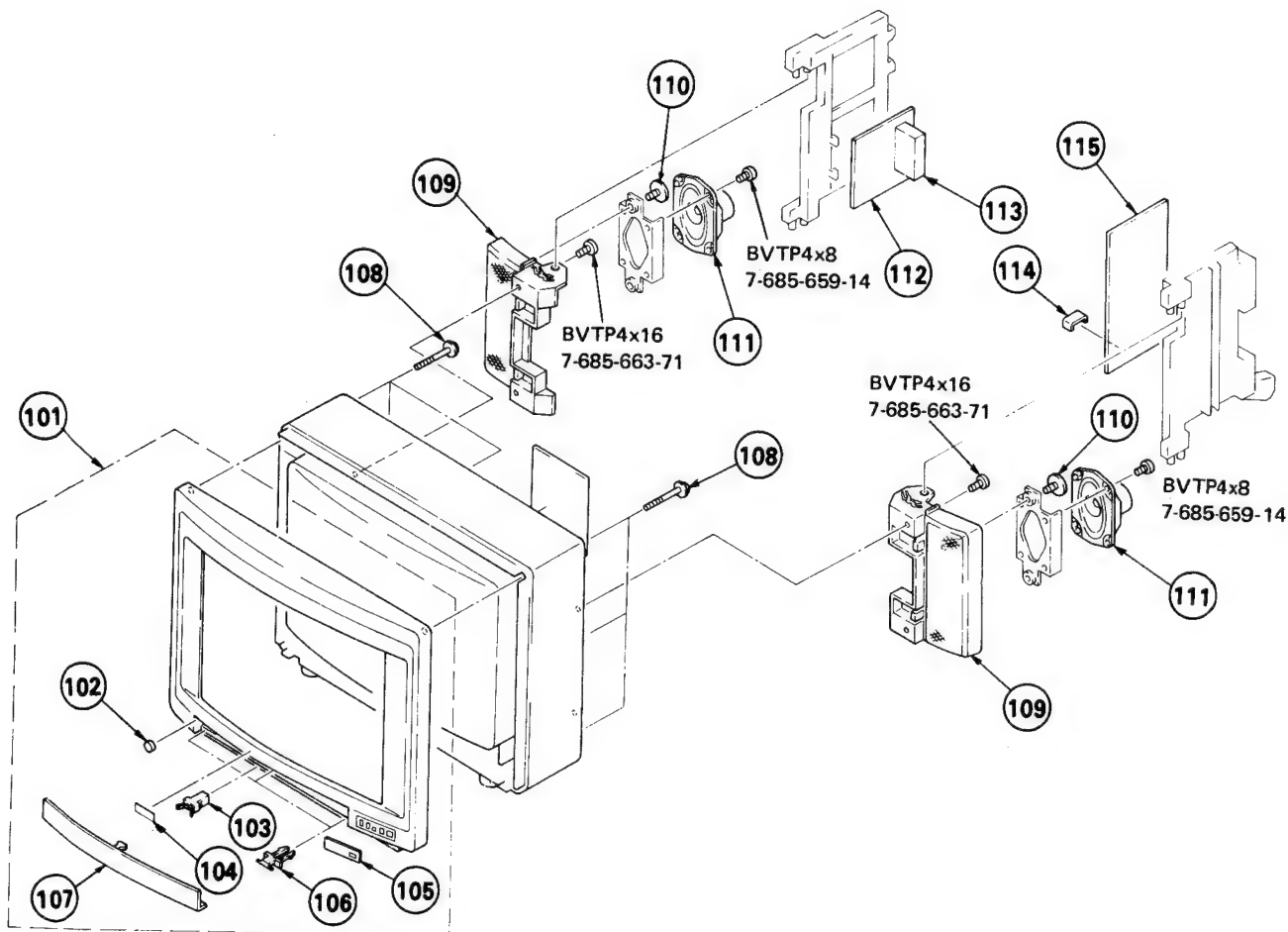
●: BVTP3x12 7-685-648-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	4-380-624-01	BUTTON, POWER		63	*1-617-753-11	D1 BOARD	
52	*1-617-746-11	H2 BOARD		64	*1-558-539-11	CABLE, P-P	
53	▲1-554-762-21	SWITCH, PUSH (AC POWER)(1 KEY)		65	▲1-563-204-11	SOCKET, ANTENNA (PAL/SECAM)	
54	4-319-520-00	SCREW, SPECIAL (+PW4X30)		66	*A-1325-023-A	V BOARD, COMPLETE (KV-21XRTD ONLY)	
55	*4-380-623-01	BRACKET, POWER SWITCH		67	▲1-439-387-21	TRANSFORMER ASSY, FLYBACK	
56	4-380-644-01	BUTTON (COMPLETE), MULTI		68	▲1-237-286-11	RESISTOR ASSY, HIGH-VOLTAGE	
57	▲4-022-115-01	HOLDER, AC CORD		69	*A-1371-170-A	J1 BOARD, COMPLETE	
58	▲1-551-270-31	CORD, POWER		70	4-380-636-01	COVER, REAR	
59	*1-617-747-11	H1 BOARD		71	*4-380-684-01	LABEL (B), COMBINATION (KV-21XRTD)	
60	*A-1345-602-A	D BOARD, COMPLETE			*4-382-041-01	LABEL (B), COMBINATION (KV-21XRD)	
61	*1-618-128-11	D3 BOARD		72	4-376-524-01	BUTTON, STEREO/MONO	
62	*A-1345-612-A	D2 BOARD, COMPLETE					

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

7-3. BEZEL ASSY



No.	Part No.	Description
101	X-4374-151-1	BEZEL ASSY (KV-21XRD)
	X-4374-151-2	BEZEL ASSY (KV-21XRTD)
102	*4-314-871-00	CUSHION
103	4-374-714-01	CATCH, PUSH
104	*4-374-115-01	EMBLEM, SONY
105	*4-380-653-01	WINDOW, ORNAMENTAL
106	3-662-365-00	SHAFT (S), DOOR
107	4-380-626-01	DOOR (KV-21XRD)
	4-380-626-11	DOOR (KV-21XRTD)

Remark	No.	Part No.	Description	Remark
102-107	108	4-319-520-00	SCREW, SPECIAL (+PW4X30)	
102-107	109	X-4380-602-1	PANEL ASSY, SPEAKER	
	110	4-314-843-00	SCREW, TAPPING, +4X12	
	111	1-503-642-11	SPEAKER	
	112	*A-1296-140-A	A BOARD, COMPLETE	
	113	Δ 1-463-523-11	TUNER, ET (UHF/VHF) (UV417)	
	114	*4-375-709-01	COVER, FUSE	
	115	*A-1245-330-A	F BOARD, COMPLETE	

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

SECTION 8

ELECTRICAL PARTS LIST

F

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
MMH . mH, UH : μ H

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*A-1245-330-A	F BOARD, COMPLETE *****		C669	1-102-038-00	CERAMIC 0.001MF	500V
				C670	1-101-004-00	CERAMIC 0.01MF	50V
		<u>CAPACITOR</u>				<u>DIODE</u>	
C601	A 1-117-121-51	PAPER 0.22MF 20% 250V		D601	A 8-719-503-06	DIODE S3WB60Z	
C602	A 1-117-121-51	PAPER 0.22MF 20% 250V		D602	8-719-100-65	DIODE RD12E-B2	
C603	1-162-578-00	CERAMIC 0.0047MF 20% 400V		D603	8-719-815-55	DIODE 1S1555	
C604	1-162-578-00	CERAMIC 0.0047MF 20% 400V		D604	8-759-157-40	IC UPC574J	
C605	A 1-162-578-51	CERAMIC 0.0047MF 20% 400V		D605	8-719-901-93	DIODE V19E	
C606	A 1-162-578-51	CERAMIC 0.0047MF 20% 400V		D606	8-719-815-55	DIODE 1S1555	
C607	A 1-161-964-61	CERAMIC 0.0047MF 250V		D607	8-719-815-55	DIODE 1S1555	
C608	A 1-161-964-61	CERAMIC 0.0047MF 250V		D608	8-719-815-55	DIODE 1S1555	
C609	A 1-161-964-61	CERAMIC 0.0047MF 250V		D609	8-719-305-15	DIODE GH3F	
C610	1-125-318-00	ELECT(BLOCK) 220MF 20% 400V		D651	8-719-928-08	DIODE ERD28-08S	
C611	1-110-175-81	MYLAR 0.1MF 10% 100V		D652	8-719-901-93	DIODE V19E	
C612	1-106-180-00	MYLAR 0.0022MF 5% 50V		D653	8-719-901-93	DIODE V19E	
C613	1-123-356-00	ELECT 10MF 20% 16V		D654	8-719-300-59	DIODE CTU-12S	
C614	1-123-356-00	ELECT 10MF 20% 16V		D655	8-719-000-12	DIODE MC931	
C615	1-102-106-00	CERAMIC 100PF 10% 50V		D656	8-719-300-59	DIODE CTU-12S	
C616	1-123-369-00	ELECT 4.7MF 20% 25V		D657	8-719-901-93	DIODE V19E	
C617	1-110-186-81	MYLAR 0.0047MF 10% 400V		D658	8-719-102-74	DIODE RD6.2E-N2	
C618	1-102-030-00	CERAMIC 330PF 10% 500V		D659	8-719-102-70	DIODE RD5.6E-N1	
C619	1-110-182-81	MYLAR 0.022MF 10% 250V		D660	8-719-815-55	DIODE 1S1555	
C620	1-123-332-00	ELECT 47MF 20% 16V		D661	8-719-815-55	DIODE 1S1555	
C621	1-136-065-00	FILM 0.0027MF 3% 2KV		D662	8-719-901-93	DIODE V19E	
C622	1-123-385-00	ELECT 22MF 20% 100V		D663	8-719-102-74	DIODE RD6.2E-N2	
C623	1-161-973-00	CERAMIC 220PF 10% 400V		D664	8-719-100-65	DIODE RD12E-B2	
C624	1-161-973-00	CERAMIC 220PF 10% 400V				<u>CONNECTOR</u>	
C625	1-123-380-00	ELECT 1MF 20% 50V		F1	*1-506-348-XX	3P PLUG (L)	
C627	1-123-380-00	ELECT 1MF 20% 50V		F2	*1-508-765-00	3P PLUG (M)	
C628	1-106-180-00	MYLAR 0.0022MF 5% 50V		F3	*1-508-786-00	2P PLUG (M)	
C632	1-102-038-00	CERAMIC 0.001MF 500V		F4	*1-508-765-00	3P PLUG (M)	
C633	A 1-117-121-51	PAPER 0.22MF 20% 250V		F6	*1-564-880-31	PLUG, CONNECTOR 3P	
C634	1-110-175-81	MYLAR 0.1MF 10% 100V		F7	*1-564-883-11	PLUG, CONNECTOR 6P	
C635	A 1-117-121-51	PAPER 0.22MF 20% 250V				<u>FUSE</u>	
C651	1-162-115-00	CERAMIC 330PF 10% 2KV		F601	A 1-532-350-11	FUSE, TIME-LAG 4A/250V	
C652	1-124-347-00	ELECT 100MF 20% 160V			1-533-149-00	HOLDER, FUSE; F601	
C653	1-123-364-00	ELECT 1000MF 20% 50V				<u>IC</u>	
C654	1-123-606-00	ELECT 1000MF 20% 25V		IC601	8-759-100-75	IC UPC1394C	
C655	1-123-606-00	ELECT 1000MF 20% 25V		IC602	A 8-719-800-82	DIODE TLP581	
C656	1-102-038-00	CERAMIC 0.001MF 500V		IC651	8-759-145-58	IC UPC4558C	
C657	1-123-380-00	ELECT 1MF 20% 50V				<u>COIL</u>	
C658	1-123-332-00	ELECT 47MF 20% 16V		L601	1-407-365-00	COIL, CHOKE	
C659	1-102-074-00	CERAMIC 0.001MF 10% 50V		L651	1-425-613-00	COIL, AIR-CORE, QF TYPE	
C660	1-123-875-91	ELECT 10MF 20% 50V		L652	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)	
C661	1-123-973-00	ELECT 100MF 20% 16V		L653	1-425-613-00	COIL, AIR-CORE, QF TYPE	
C662	1-110-190-81	MYLAR 0.01MF 10% 400V		L654	1-425-613-00	COIL, AIR-CORE, QF TYPE	
C663	1-123-380-00	ELECT 1MF 20% 50V					
C664	1-124-038-00	ELECT 1MF 20% 50V					
C665	1-123-380-00	ELECT 1MF 20% 50V					
C666	1-123-307-00	ELECT 100MF 20% 6.3V					
C667	1-102-121-00	CERAMIC 0.0022MF 10% 50V					
C668	1-110-190-81	MYLAR 0.01MF 10% 400V					



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
TRANSISTOR							
Q601	8-729-195-82	TRANSISTOR 2SC2958		R657	1-215-698-91	METAL 22 5% 1/6W	
Q602	8-729-301-00	TRANSISTOR 2SD1497-02		R659	1-215-865-11	METAL OXIDE 220 5% 1W	F
	4-365-216-00	SPACER, MICA; Q602		R660	1-216-370-11	METAL OXIDE 1.2 5% 2W	F
	*4-368-683-01	SPRING; Q602		R662	1-215-776-91	METAL 39K 5% 1/6W	
Q603	8-729-178-54	TRANSISTOR 2SC2785		R663	1-215-764-91	METAL 12K 5% 1/6W	
				R664	1-215-200-00	METAL 100K 5% 1/4W	
Q651	8-729-109-53	TRANSISTOR 2SD795A		R665	1-215-754-91	METAL 4.7K 5% 1/6W	
Q652	8-729-178-54	TRANSISTOR 2SC2785		R666	1-215-144-00	METAL 470 5% 1/4W	
Q653	8-729-178-54	TRANSISTOR 2SC2785		R667	1-215-126-81	METAL 82 5% 1/4W	
				R668	1-215-778-91	METAL 47K 5% 1/6W	
RESISTOR							
R601	1-217-328-11	WIREWOUND 2.7 10% 7W	F	R669	1-215-752-91	METAL 3.9K 5% 1/6W	
R602	1-244-945-91	CARBON 1M 5% 1/2W		R670	1-215-746-91	METAL 2.2K 5% 1/6W	
R603	1-205-758-11	CEMENTED 100 10% 10W	F	VARIABLE RESISTOR			
R604	1-247-289-11	CARBON 8.2M 5% 1W		RV651	1-230-627-11	RES, ADJ, CARBON 1K	
R605	1-215-798-91	METAL 330K 5% 1/6W		RV652	1-226-720-00	RES, ADJ, METAL GLAZE 2.2K	
				TRANSFORMER			
R606	1-215-770-91	METAL 22K 5% 1/6W		T601	1-421-776-11	LFT	
R608	1-215-746-91	METAL 2.2K 5% 1/6W		T602	1-421-592-11	TRANSFORMER, FERRITE	
R609	1-215-871-11	METAL OXIDE 2.2K 5% 1W	F	T603	1-437-079-00	TRANSFORMER, HORIZONTAL DRIVE	
R611	1-215-774-91	METAL 33K 5% 1/6W		T605	1-421-733-21	SRT	
R612	1-215-904-51	METAL OXIDE 100K 5% 2W	F	T606	1-421-866-11	LFT	
				THERMISTOR			
R613	1-215-872-11	METAL OXIDE 3.3K 5% 1W	F	TH601	1-800-944-11	THERMISTOR TH-4700	
R614	1-216-459-00	METAL OXIDE 2.7K 5% 2W	F	TH651	1-800-944-11	THERMISTOR TH-4700	
R615	1-205-793-00	CEMENTED 30K 10% 10W		THP601	1-806-387-11	THERMISTOR (POSITIVE)	
R616	1-215-772-91	METAL 27K 5% 1/6W		THP602	1-806-387-11	THERMISTOR (POSITIVE)	
R621	1-215-762-91	METAL 10K 5% 1/6W		*****			
				*A-1296-140-A	A BOARD, COMPLETE		
R622	1-215-770-91	METAL 22K 5% 1/6W			*****		
R623	1-215-162-00	METAL 2.7K 5% 1/4W		*4-368-692-03	CASE (MAIN), SHIELD		
R624	1-215-754-91	METAL 4.7K 5% 1/6W		*4-368-693-02	CASE (UPPER LID), SHIELD		
R625	1-215-786-91	METAL 100K 5% 1/6W		*4-368-694-02	CASE (BOTTOM LID), SHIELD		
R626	1-215-150-00	METAL 820 5% 1/4W		CONNECTOR			
				A1	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
R627	1-215-722-91	METAL 220 5% 1/6W		A2	*1-564-883-11	PLUG, CONNECTOR 6P	
R628	1-215-796-91	METAL 270K 5% 1/6W		A3	*1-564-890-11	PLUG, CONNECTOR 13P	
R629	1-215-758-91	METAL 6.8K 5% 1/6W		CAPACITOR			
R630	1-215-112-00	METAL 22 5% 1/4W		C101	1-110-175-81	MYLAR 0.1MF 10% 100V	
R631	1-205-728-00	CEMENTED 47 10% 7W		C102	1-123-356-00	ELECT 10MF 20% 16V	
				C103	1-101-006-00	CERAMIC 0.047MF 50V	
R632	1-217-192-00	WIREWOUND 0.22 10% 2W	F	C104	1-123-356-00	ELECT 10MF 20% 16V	
R633	1-215-794-91	METAL 220K 5% 1/6W		C105	1-123-356-00	ELECT 10MF 20% 16V	
R634	1-215-778-91	METAL 47K 5% 1/6W					
R636	1-215-788-91	METAL 120K 5% 1/6W		C106	1-123-323-00	ELECT 470MF 20% 16V	
R637	1-215-770-91	METAL 22K 5% 1/6W		C107	1-123-330-00	ELECT 22MF 20% 16V	
				C108	1-110-173-81	MYLAR 0.068MF 10% 100V	
R638	1-215-430-00	METAL 2.4K 1% 1/6W		C109	1-110-173-81	MYLAR 0.068MF 10% 100V	
R639	1-215-754-91	METAL 4.7K 5% 1/6W		C110	1-102-963-00	CERAMIC 33PF 5% 50V	
R640	1-215-192-81	METAL 47K 5% 1/4W					
R641	1-202-613-35	SOLID 47K 10% 1/2W					
R642	1-205-758-11	CEMENTED 100 10% 10W	F				
R651	1-216-477-11	METAL OXIDE 270 5% 3W	F				
R652	1-216-430-11	METAL OXIDE 390 5% 1W	F				
R653	1-215-754-91	METAL 4.7K 5% 1/6W					
R654	1-216-464-11	METAL OXIDE 18K 5% 2W	F				
R655	1-215-794-91	METAL 220K 5% 1/6W					
R656	1-215-778-91	METAL 47K 5% 1/6W					

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C111	1-123-318-00	ELECT	33MF 20% 16V	C170	1-123-356-00	ELECT	10MF 20% 16V
C112	1-102-527-00	CERAMIC	82PF 5% 50V	C171	1-123-318-00	ELECT	33MF 20% 16V
C113	1-102-510-00	CERAMIC	12PF 5% 50V	C172	1-123-379-00	ELECT	0.47MF 20% 50V
C115	1-102-852-00	CERAMIC	47PF 5% 50V	C173	1-123-379-00	ELECT	0.47MF 20% 50V
C116	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C174	1-110-190-81	MYLAR	0.01MF 10% 400V
C117	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C175	1-110-190-81	MYLAR	0.01MF 10% 400V
C118	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C176	1-123-332-00	ELECT	47MF 20% 16V
C119	1-110-175-81	MYLAR	0.1MF 10% 100V	C177	1-123-332-00	ELECT	47MF 20% 16V
C120	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C179	1-110-179-81	MYLAR	0.22MF 10% 100V
C122	1-123-330-00	ELECT	22MF 20% 16V	C180	1-110-179-81	MYLAR	0.22MF 10% 100V
C123	1-101-361-00	CERAMIC	150PF 5% 50V	C182	1-123-307-00	ELECT	100MF 20% 10V
C124	1-104-069-00	POLYSTYRENE	470PF 5% 50V	C183	1-101-361-00	CERAMIC	150PF 5% 50V
C125	1-101-361-00	CERAMIC	150PF 5% 50V	C184	1-102-973-00	CERAMIC	100PF 5% 50V
C126	1-123-318-00	ELECT	33MF 20% 16V	C185	1-103-741-00	POLYSTYRENE	0.0047MF 5% 50V
C127	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C186	1-123-356-00	ELECT	10MF 20% 16V
C128	1-101-004-00	CERAMIC	0.01MF 50V	C187	1-110-190-81	MYLAR	0.01MF 10% 400V
C129	1-101-004-00	CERAMIC	0.01MF 50V	C188	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C130	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C189	1-123-369-00	ELECT	4.7MF 20% 50V
C131	1-123-381-00	ELECT	2.2MF 20% 50V	C190	1-110-190-81	MYLAR	0.01MF 10% 400V
C132	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C191	1-102-816-00	CERAMIC	120PF 5% 50V
C133	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C192	1-161-319-00	CERAMIC	470PF 10% 50V
C134	1-102-125-00	CERAMIC	0.0047MF 10% 50V	<u>DISCRIMINATOR</u>			
C135	1-102-525-00	CERAMIC	68PF 5% 50V	CD151	1-404-501-00	DISCRIMINATOR, CERAMIC	
C136	1-102-525-00	CERAMIC	68PF 5% 50V	<u>FILTER</u>			
C137	1-102-125-00	CERAMIC	0.0047MF 10% 50V	CF101	1-527-840-00	FILTER, CERAMIC	
C138	1-123-380-00	ELECT	1MF 20% 50V	CF102	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
C139	1-102-125-00	CERAMIC	0.0047MF 10% 50V	CF151	1-527-839-00	FILTER, CERAMIC	
C140	1-102-125-00	CERAMIC	0.0047MF 10% 50V	SWF101	1-404-438-00	FILTER, SAW	
C141	1-123-318-00	ELECT	33MF 20% 16V	<u>DIODE</u>			
C142	1-102-525-00	CERAMIC	68PF 5% 50V	D101	8-719-911-19	DIODE 1SS119	
C143	1-102-934-00	CERAMIC	1PF 0.25PF 50V	D102	8-719-911-19	DIODE 1SS119	
C144	1-123-609-00	ELECT	0.33MF 20% 50V	D103	8-719-102-71	DIODE RD5.6E-N2	
C145	1-102-961-00	CERAMIC	27PF 5% 50V	D104	8-719-911-19	DIODE 1SS119	
C146	1-123-380-00	ELECT	1MF 20% 50V	D105	8-719-911-19	DIODE 1SS119	
C147	1-130-072-00	FILM	0.022MF 2% 100V	D108	8-719-911-19	DIODE 1SS119	
C148	1-110-186-81	MYLAR	0.0047MF 10% 400V	D109	8-719-911-19	DIODE 1SS119	
C150	1-102-520-00	CERAMIC	39PF 5% 50V	D110	8-719-911-19	DIODE 1SS119	
C151	1-101-004-00	CERAMIC	0.01MF 50V	D111	8-719-911-19	DIODE 1SS119	
C152	1-101-004-00	CERAMIC	0.01MF 50V	D112	8-719-911-19	DIODE 1SS119	
C153	1-123-356-00	ELECT	10MF 20% 16V	D152	8-719-911-19	DIODE 1SS119	
C154	1-101-004-00	CERAMIC	0.01MF 50V	D153	8-719-911-19	DIODE 1SS119	
C155	1-123-332-00	ELECT	47MF 20% 16V	D154	8-719-911-19	DIODE 1SS119	
C156	1-123-306-00	ELECT	47MF 20% 10V	<u>IC</u>			
C157	1-123-306-00	ELECT	47MF 20% 10V	IC101	8-759-909-08	IC TDA3541	
C158	1-123-379-00	ELECT	0.47MF 20% 50V	IC102	8-759-909-54	IC TDA2546A	
C159	1-102-816-00	CERAMIC	120PF 5% 50V	IC103	6-066-720-50	IC TDA2595	
C160	1-102-125-00	CERAMIC	0.0047MF 10% 50V	IC151	8-759-007-54	IC TDA4940	
C161	1-123-318-00	ELECT	33MF 20% 16V	IC152	8-759-007-55	IC TDA4944	
C164	1-108-620-91	MYLAR	0.0033MF 10% 100V				
C165	1-108-620-91	MYLAR	0.0033MF 10% 100V				
C167	1-108-620-91	MYLAR	0.0033MF 10% 100V				
C168	1-108-620-91	MYLAR	0.0033MF 10% 100V				
C169	1-123-356-00	ELECT	10MF 20% 16V				

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>COIL</u>							
L102	1-404-476-00	COIL, IF		R121	1-215-742-91	METAL 1.5K 5% 1/6W	
L103	1-408-399-00	MICRO INDUCTOR 1.5UH		R122	1-215-762-91	METAL 10K 5% 1/6W	
L104	1-408-406-00	MICRO INDUCTOR 5.6UH		R125	1-215-736-91	METAL 820 5% 1/6W	
L105	1-404-477-00	COIL, IF		R126	1-215-736-91	METAL 820 5% 1/6W	
L106	1-404-493-00	COIL		R127	1-215-736-91	METAL 820 5% 1/6W	
L107	1-404-493-00	COIL		R129	1-215-810-91	METAL 1M 5% 1/6W	
L108	1-404-691-11	VIFT		R131	1-215-762-91	METAL 10K 5% 1/6W	
L109	1-408-409-00	MICRO INDUCTOR 10UH		R134	1-215-770-91	METAL 22K 5% 1/6W	
L110	1-408-406-00	MICRO INDUCTOR 5.6UH		R135	1-215-776-91	METAL 39K 5% 1/6W	
L111	1-404-493-00	COIL		R136	1-215-770-91	METAL 22K 5% 1/6W	
L113	1-408-226-00	MICRO INDUCTOR 82UH		R137	1-215-770-91	METAL 22K 5% 1/6W	
L115	1-408-405-00	MICRO INDUCTOR 4.7UH		R141	1-215-766-91	METAL 15K 5% 1/6W	
L116	1-408-406-00	MICRO INDUCTOR 5.6UH		R142	1-215-786-91	METAL 100K 5% 1/6W	
L117	1-408-428-00	MICRO INDUCTOR 390UH		R143	1-215-786-91	METAL 100K 5% 1/6W	
L161	1-408-429-00	MICRO INDUCTOR 470UH		R145	1-215-752-91	METAL 3.9K 5% 1/6W	
L171	1-408-408-00	MICRO INDUCTOR 8.2UH		R146	1-215-184-00	METAL 22K 5% 1/4W	
L172	1-408-421-00	MICRO INDUCTOR 100UH		R150	1-215-726-91	METAL 330 5% 1/6W	
<u>TRANSISTOR</u>				R151	1-215-732-91	METAL 560 5% 1/6W	
Q101	8-729-178-54	TRANSISTOR 2SC2785		R152	1-215-776-91	METAL 39K 5% 1/6W	
Q102	8-729-105-47	TRANSISTOR 2SC2026-L		R153	1-215-728-91	METAL 390 5% 1/6W	
Q105	8-729-117-54	TRANSISTOR 2SA1175		R154	1-215-714-91	METAL 100 5% 1/6W	
Q106	8-729-900-61	TRANSISTOR DTA114ES		R155	1-215-770-91	METAL 22K 5% 1/6W	
Q107	8-729-900-61	TRANSISTOR DTA114ES		R156	1-215-784-91	METAL 82K 5% 1/6W	
Q108	8-729-900-61	TRANSISTOR DTA114ES		R157	1-215-726-91	METAL 330 5% 1/6W	
Q109	8-729-900-61	TRANSISTOR DTA114ES		R158	1-215-726-91	METAL 330 5% 1/6W	
Q151	8-729-178-54	TRANSISTOR 2SC2785		R159	1-215-754-91	METAL 4.7K 5% 1/6W	
Q152	8-729-178-54	TRANSISTOR 2SC2785		R160	1-215-754-91	METAL 4.7K 5% 1/6W	
Q153	8-729-178-54	TRANSISTOR 2SC2785		R161	1-215-754-91	METAL 4.7K 5% 1/6W	
Q154	8-729-900-89	TRANSISTOR DTC144ES		R162	1-215-754-91	METAL 4.7K 5% 1/6W	
Q157	8-729-900-89	TRANSISTOR DTC144ES		R163	1-215-738-91	METAL 1K 5% 1/6W	
Q158	8-729-900-89	TRANSISTOR DTC144ES		R171	1-215-766-91	METAL 15K 5% 1/6W	
Q175	8-729-178-54	TRANSISTOR 2SC2785		R172	1-215-128-00	METAL 100 5% 1/4W	
<u>RESISTOR</u>				R174	1-215-788-91	METAL 120K 5% 1/6W	
R101	1-215-762-91	METAL 10K 5% 1/6W		R175	1-215-764-91	METAL 12K 5% 1/6W	
R105	1-215-762-91	METAL 10K 5% 1/6W		R176	1-215-786-91	METAL 100K 5% 1/6W	
R106	1-215-750-91	METAL 3.3K 5% 1/6W		R178	1-215-762-91	METAL 10K 5% 1/6W	
R107	1-215-164-00	METAL 3.3K 5% 1/4W		R179	1-215-762-91	METAL 10K 5% 1/6W	
R108	1-215-798-91	METAL 330K 5% 1/6W		R180	1-215-738-91	METAL 1K 5% 1/6W	
R109	1-215-746-91	METAL 2.2K 5% 1/6W		R181	1-215-740-91	METAL 1.2K 5% 1/6W	
R110	1-215-746-91	METAL 2.2K 5% 1/6W		R182	1-215-746-91	METAL 2.2K 5% 1/6W	
R111	1-215-754-91	METAL 4.7K 5% 1/6W		R183	1-215-738-91	METAL 1K 5% 1/6W	
R112	1-215-744-91	METAL 1.8K 5% 1/6W		R184	1-215-736-91	METAL 820 5% 1/6W	
R113	1-215-752-91	METAL 3.9K 5% 1/6W		R185	1-215-726-91	METAL 330 5% 1/6W	
R114	1-215-722-91	METAL 220 5% 1/6W		R188	1-215-766-91	METAL 15K 5% 1/6W	
R115	1-215-750-91	METAL 3.3K 5% 1/6W		R191	1-215-726-91	METAL 330 5% 1/6W	
R116	1-215-730-91	METAL 470 5% 1/6W		R192	1-215-726-91	METAL 330 5% 1/6W	
R117	1-215-710-91	METAL 68 5% 1/6W		R193	1-215-714-91	METAL 100 5% 1/6W	
R118	1-215-724-91	METAL 270 5% 1/6W		<u>VARIABLE RESISTOR</u>			
R120	1-215-778-91	METAL 47K 5% 1/6W		RV101	1-230-633-51	RES, ADJ, CARBON 47K	
				RV151	1-230-632-11	RES, ADJ, CARBON 33K	
				RV171	1-230-633-51	RES, ADJ, CARBON 47K	

A

V

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>TUNER</u>				D008	8-719-102-78	DIODE RD6.8E-N2	
TU101A, 1-463-523-11 TUNER, ET (UHF/VHF) (UV417)				D009	8-719-102-71	DIODE RD5.6E-N2	
*****				<u>IC</u>			
*A-1325-023-A V BOARD, COMPLETE (KV-21XRTD ONLY)				IC001	8-759-933-45	IC MAB8441P-T060	
*****				IC002	8-759-918-54	IC SAA5230	
				IC003	8-759-918-56	IC SAA5240A	
				*1-526-722-00 SOCKET, IC 40P; IC003			
				IC004	8-759-206-27	IC TC5564PL-15	
<u>CAPACITOR</u>				<u>COIL</u>			
C001	1-123-333-00	ELECT	100MF	20%	16V		
C002	1-123-308-00	ELECT	220MF	20%	6.3V		
C003	1-123-309-00	ELECT	330MF	20%	10V		
C004	1-123-332-00	ELECT	47MF	20%	16V		
C005	1-123-333-00	ELECT	100MF	20%	16V		
C006	1-123-321-00	ELECT	220MF	20%	16V		
C007	1-123-356-00	ELECT	10MF	20%	16V		
C008	1-102-951-00	CERAMIC	15PF	5%	50V		
C009	1-102-074-00	CERAMIC	0.001MF	10%	50V		
C010	1-102-824-21	CERAMIC	470PF	5%	50V		
C011	1-110-182-81	MYLAR	0.022MF	10%	250V		
C012	1-102-980-00	CERAMIC	270PF	5%	50V		
C013	1-102-973-00	CERAMIC	100PF	5%	50V		
C014	1-102-951-00	CERAMIC	15PF	5%	50V		
C015	1-102-961-00	CERAMIC	27PF	5%	50V		
C016	1-110-190-81	MYLAR	0.01MF	10%	400V		
C017	1-110-171-81	MYLAR	0.047MF	10%	100V		
C018	1-102-953-00	CERAMIC	18PF	5%	50V		
C019	1-110-171-81	MYLAR	0.047MF	10%	100V		
C020	1-102-978-00	CERAMIC	220PF	5%	50V		
C021	1-110-173-81	MYLAR	0.068MF	10%	100V		
C022	1-102-961-00	CERAMIC	27PF	5%	50V		
C023	1-102-961-00	CERAMIC	27PF	5%	50V		
C024	1-123-307-00	ELECT	100MF	20%	10V		
C025	1-123-306-00	ELECT	47MF	20%	10V		
C027	1-102-820-00	CERAMIC	330PF	5%	50V		
C028	1-102-116-00	CERAMIC	680PF	10%	50V		
C029	1-123-369-00	ELECT	4.7MF	20%	25V		
C051	1-110-175-81	MYLAR	0.1MF	10%	100V		
C052	1-110-175-81	MYLAR	0.1MF	10%	100V		
C053	1-110-175-81	MYLAR	0.1MF	10%	100V		
C054	1-110-175-81	MYLAR	0.1MF	10%	100V		
C055	1-110-175-81	MYLAR	0.1MF	10%	100V		
C056	1-110-175-81	MYLAR	0.1MF	10%	100V		
<u>TRIMMER</u>				<u>RESISTOR</u>			
CT001	1-141-181-11	CAP, TRIMMER		R001	1-247-745-11	CARBON	330 5% 1/2W
<u>DIODE</u>				R002	1-215-762-91	METAL	10K 5% 1/6W
D001	8-719-100-35	DIODE RD5.6E-B2		R003	1-215-778-91	METAL	47K 5% 1/6W
D002	8-719-100-68	DIODE RD13E-B2		R004	1-215-867-00	METAL OXIDE	470 5% 1W F
D003	8-719-911-19	DIODE 1SS119		R005	1-215-714-91	METAL	100 5% 1/6W
D004	8-719-100-19	DIODE RD3.6E-B2		R006	1-215-738-91	METAL	1K 5% 1/6W
				R007	1-215-714-91	METAL	100 5% 1/6W
				R008	1-215-726-91	METAL	330 5% 1/6W
				R009	1-215-780-91	METAL	56K 5% 1/6W
				R011	1-215-754-91	METAL	4.7K 5% 1/6W
				R012	1-215-754-91	METAL	4.7K 5% 1/6W
				R013	1-215-714-91	METAL	100 5% 1/6W
				R014	1-215-714-91	METAL	100 5% 1/6W
				R015	1-215-810-91	METAL	1M 5% 1/6W
				R016	1-215-744-91	METAL	1.8K 5% 1/6W
				R017	1-215-738-91	METAL	1K 5% 1/6W
				R018	1-215-754-91	METAL	4.7K 5% 1/6W
				R019	1-215-730-91	METAL	470 5% 1/6W
				R020	1-215-756-91	METAL	5.6K 5% 1/6W
				R021	1-215-746-91	METAL	2.2K 5% 1/6W
				R022	1-215-746-91	METAL	2.2K 5% 1/6W
				R023	1-215-738-91	METAL	1K 5% 1/6W
				R024	1-215-746-91	METAL	2.2K 5% 1/6W

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.



Ref.No.	Part No.	Description				
R025	1-215-754-91	METAL	4.7K	5%	1/6W	
R026	1-215-762-91	METAL	10K	5%	1/6W	
R027	1-215-702-91	METAL	33	5%	1/6W	
R028	1-215-702-91	METAL	33	5%	1/6W	
R029	1-215-702-91	METAL	33	5%	1/6W	
R030	1-215-130-00	METAL	120	5%	1/4W	
R031	1-215-130-00	METAL	120	5%	1/4W	
R032	1-215-130-00	METAL	120	5%	1/4W	
R033	1-215-712-91	METAL	82	5%	1/6W	
R034	1-215-738-91	METAL	1K	5%	1/6W	
R037	1-215-714-91	METAL	100	5%	1/6W	
R038	1-215-736-91	METAL	820	5%	1/6W	
R040	1-215-754-91	METAL	4.7K	5%	1/6W	
R041	1-215-730-91	METAL	470	5%	1/6W	
R043	1-215-746-91	METAL	2.2K	5%	1/6W	
R044	1-215-730-91	METAL	470	5%	1/6W	
R045	1-215-738-91	METAL	1K	5%	1/6W	
R046	1-215-690-91	METAL	10	5%	1/6W	

VARIABLE RESISTOR

RV001 1-230-628-11 RES, ADJ, CARBON 2.2K

CONNECTOR

V1 *1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P
V2 *1-560-125-00 PLUG, CONNECTOR (2.5MM) 5P
V3 *1-560-126-00 PLUG, CONNECTOR (2.5MM) 6P
V4 *1-560-123-00 PLUG, CONNECTOR (2.5MM PITCH)
V5 *1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)

CRYSTAL

X001 1-567-162-00 OSCILLATOR, CRYSTAL
X002 1-567-495-11 OSCILLATOR, CRYSTAL
X003 1-567-192-11 OSCILLATOR, CERAMIC

*A-1330-686-A C BOARD, COMPLETE

CONNECTOR

C1 *1-506-371-00 2P PLUG (L)
C2 *1-564-880-31 PLUG, CONNECTOR 3P
C3 *1-508-766-00 4P PLUG (M)
C4 *1-564-884-11 PLUG, CONNECTOR 7P
C6 *1-508-784-00 1P PLUG

CAPACITOR

C701 1-123-947-00 ELECT 10MF 20% 250V
C702 1-123-356-00 ELECT 10MF 20% 16V
C703 1-123-356-00 ELECT 10MF 20% 16V
C704 1-162-114-00 CERAMIC 0.0047MF 2KV
C705 1-162-116-00 CERAMIC 680PF 10% 2KV
C708 1-102-116-00 CERAMIC 680PF 10% 50V

Ref.No.	Part No.	Description			Remark
C709	1-102-116-00	CERAMIC	680PF	10%	50V
C710	1-102-116-00	CERAMIC	680PF	10%	50V
C712	1-162-583-11	CERAMIC	330PF	10%	400V
C713	1-102-947-00	CERAMIC	10PF	5%	50V
C714	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C715	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C716	1-123-382-00	ELECT	3.3MF	20%	50V
C717	1-123-356-00	ELECT	10MF	20%	16V
C718	1-101-006-00	CERAMIC	0.047MF		50V
C719	1-102-963-00	CERAMIC	33PF	5%	50V
C720	1-102-963-00	CERAMIC	33PF	5%	50V
C721	1-102-963-00	CERAMIC	33PF	5%	50V

DIODE

D701 8-719-911-19 DIODE 1SS119
D702 8-719-911-19 DIODE 1SS119
D703 8-719-911-19 DIODE 1SS119
D704 8-719-911-19 DIODE 1SS119
D705 8-719-911-19 DIODE 1SS119
D706 8-719-911-19 DIODE 1SS119
D708 8-719-911-19 DIODE 1SS119
D709 8-719-911-19 DIODE 1SS119
D710 8-719-911-19 DIODE 1SS119

JACK

J701 1-526-798-41 SOCKET, CRT

COIL

L701 1-408-420-00 MICRO INDUCTOR 82UH
L702 1-410-512-11 MICRO INDUCTOR 18UH
L703 1-410-331-11 MICRO INDUCTOR 33UH
L704 1-410-331-11 MICRO INDUCTOR 33UH

TRANSISTOR

Q701 8-729-802-47 TRANSISTOR 2SC3504
Q702 8-729-802-47 TRANSISTOR 2SC3504
Q703 8-729-802-47 TRANSISTOR 2SC3504
Q704 8-729-326-11 TRANSISTOR 2SC2611
Q705 8-729-326-11 TRANSISTOR 2SC2611
Q706 8-729-326-11 TRANSISTOR 2SC2611
Q707 8-729-200-17 TRANSISTOR 2SA1091
Q708 8-729-200-17 TRANSISTOR 2SA1091
Q709 8-729-200-17 TRANSISTOR 2SA1091
Q710 8-729-255-12 TRANSISTOR 2SC2551
Q711 8-729-255-12 TRANSISTOR 2SC2551
Q712 8-729-255-12 TRANSISTOR 2SC2551
Q713 8-729-117-54 TRANSISTOR 2SA1175
Q714 8-729-900-36 TRANSISTOR DTC124ES
Q715 8-729-178-54 TRANSISTOR 2SC2785

RESISTOR

R701 1-215-750-91 METAL 3.3K 5% 1/6W
R702 1-215-748-91 METAL 2.7K 5% 1/6W

C

D1

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R703	1-215-748-91	METAL	2.7K 5% 1/6W		*1-617-753-11	D1 BOARD	
R704	1-214-912-00	METAL	91K 1% 1/2W			*****	
R705	1-214-912-00	METAL	91K 1% 1/2W				
R706	1-214-912-00	METAL	91K 1% 1/2W				
R707	1-215-738-91	METAL	1K 5% 1/6W			CAPACITOR	
R708	1-215-738-91	METAL	1K 5% 1/6W	C1501	1-110-182-81	MYLAR	0.022MF 10% 250V
R709	1-215-738-91	METAL	1K 5% 1/6W	C1503	1-110-190-81	MYLAR	0.01MF 10% 400V
R710	1-215-774-91	METAL	33K 5% 1/6W	C1504	1-123-380-00	ELECT	1MF 20% 50V
R711	1-215-774-91	METAL	33K 5% 1/6W	C1505	1-110-186-81	MYLAR	0.0047MF 10% 400V
R712	1-215-774-91	METAL	33K 5% 1/6W	C1511	1-123-380-00	ELECT	1MF 20% 50V
R713	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	C1512	1-110-190-81	MYLAR	0.01MF 10% 400V
R714	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	C1520	1-123-333-00	ELECT	100MF 20% 16V
R715	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	C1526	1-102-125-00	CERAMIC	0.0047MF 10% 50V
R716	1-247-710-11	CARBON	560 5% 1/4W F	C1527	1-110-175-81	MYLAR	0.1MF 10% 100V
R717	1-247-710-11	CARBON	560 5% 1/4W F			CONNECTOR	
R718	1-247-710-11	CARBON	560 5% 1/4W F	CNJ1	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
R719	1-202-821-11	SOLID	1.8K 10% 1/2W			IC	
R720	1-202-821-11	SOLID	1.8K 10% 1/2W	IC1501	8-759-905-39	IC TDA1082	
R721	1-202-821-11	SOLID	1.8K 10% 1/2W			RESISTOR	
R722	1-215-734-91	METAL	680 5% 1/6W	R1501	1-215-712-91	METAL	82 5% 1/6W
R723	1-215-762-91	METAL	10K 5% 1/6W	R1502	1-215-166-00	METAL	3.9K 5% 1/4W
R724	1-215-744-91	METAL	1.8K 5% 1/6W	R1504	1-215-768-91	METAL	18K 5% 1/6W
R726	1-217-694-11	WIREWOUND	0.82 10% 1/2W	R1505	1-215-750-91	METAL	3.3K 5% 1/6W
R727	1-202-838-00	SOLID	100K 10% 1/2W	R1506	1-215-768-91	METAL	18K 5% 1/6W
R728	1-202-838-00	SOLID	100K 10% 1/2W				
R729	1-202-842-91	SOLID	220K 10% 1/2W	R1508	1-215-768-91	METAL	18K 5% 1/6W
R733	1-214-773-00	METAL	68K 1% 1/4W	R1509	1-215-132-00	METAL	150 5% 1/4W
R734	1-214-787-00	METAL	270K 1% 1/4W	R1510	1-215-738-91	METAL	1K 5% 1/6W
R735	1-214-958-00	METAL	560K 1% 1/4W	R1511	1-215-214-81	METAL	390K 5% 1/4W
R736	1-202-848-00	SOLID	680K 10% 1/2W	R1512	1-215-802-91	METAL	470K 5% 1/6W
R737	1-215-744-91	METAL	1.8K 5% 1/6W				
R738	1-215-744-91	METAL	1.8K 5% 1/6W	R1513	1-215-736-91	METAL	820 5% 1/6W
R739	1-215-744-91	METAL	1.8K 5% 1/6W	R1514	1-215-722-91	METAL	220 5% 1/6W
R740	1-215-706-91	METAL	47 5% 1/6W	R1518	1-215-192-00	METAL	47K 5% 1/4W
R741	1-215-758-91	METAL	6.8K 5% 1/6W	R1523	1-215-760-91	METAL	8.2K 5% 1/6W
R742	1-215-766-91	METAL	15K 5% 1/6W	R1536	1-215-776-91	METAL	39K 5% 1/6W
R743	1-215-766-91	METAL	15K 5% 1/6W			VARIABLE RESISTOR	
R744	1-215-738-91	METAL	1K 5% 1/6W	RV1501	1-230-625-11	RES, ADJ, CARBON 330	
R745	1-215-722-91	METAL	220 5% 1/6W	RV1502	1-230-634-51	RES, ADJ, CARBON 100K	
R746	1-215-746-91	METAL	2.2K 5% 1/6W	RV1503	1-230-634-51	RES, ADJ, CARBON 100K	
R750	1-249-405-11	CARBON	100 5% 1/6W F	RV1504	1-226-771-00	RES, ADJ, METAL GLAZE 1K	
R770	1-215-762-91	METAL	10K 5% 1/6W	RV1506	1-230-634-51	RES, ADJ, CARBON 100K	
		VARIABLE RESISTOR		RV1507	1-230-630-11	RES, ADJ, CARBON 10K	
RV701	1-230-103-00	RES, ADJ, CARBON 2.2K				THERMISTOR	
RV702	1-230-105-00	RES, ADJ, CARBON 3.3K		TH1501	1-806-110-00	THERMISTOR	
RV703	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		TH1502	1-800-625-00	THERMISTOR	
RV704	1-230-619-11	RES, ADJ, METAL GLAZE 110M					
	*4-379-160-01	COVER (REAR LID), CV; RV704					
	*4-379-167-01	COVER (MAIN), CV; RV704					

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

D3 D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*1-618-128-11 D3 BOARD *****				C006	1-123-307-00	ELECT 100MF	20% 6.3V
				C007	1-102-820-00	CERAMIC 330PF	5% 50V
CAPACITOR				C009	1-102-822-00	CERAMIC 390PF	5% 50V
C1301	1-136-171-00	FILM 0.33MF	5% 50V	C010	1-102-514-00	CERAMIC 22PF	5% 50V
C1302	1-136-171-00	FILM 0.33MF	5% 50V	C011	1-102-525-00	CERAMIC 68PF	5% 50V
C1303	1-102-529-00	CERAMIC 100PF	5% 50V	C012	1-123-607-00	ELECT 0.1MF	20% 50V
C1304	1-102-529-00	CERAMIC 100PF	5% 50V	C013	1-102-973-00	CERAMIC 100PF	5% 50V
C1305	1-104-108-11	POLYSTYRENE 330PF	10% 50V	C014	1-110-190-81	MYLAR 0.01MF	10% 400V
C1306	1-102-824-21	CERAMIC 470PF	5% 50V	C015	1-123-307-00	ELECT 100MF	20% 6.3V
C1307	1-102-824-21	CERAMIC 470PF	5% 50V	C016	1-102-129-00	CERAMIC 0.01MF	10% 50V
C1308	1-123-321-00	ELECT 220MF	20% 16V	C018	1-123-356-00	ELECT 10MF	20% 50V
C1309	1-123-380-00	ELECT 1MF	20% 50V	C019	1-123-356-00	ELECT 10MF	20% 50V
C1310	1-123-318-00	ELECT 33MF	20% 16V	C020	1-123-307-00	ELECT 100MF	20% 6.3V
C1311	1-123-318-00	ELECT 33MF	20% 16V	C022	1-110-190-81	MYLAR 0.01MF	10% 400V
CONNECTOR				C026	1-110-182-81	MYLAR 0.022MF	10% 250V
CN33	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P		C027	1-102-973-00	CERAMIC 100PF	5% 50V
DIODE				C028	1-102-973-00	CERAMIC 100PF	5% 50V
D1301	8-719-000-12	DIODE MC931		C031	1-162-290-31	CERAMIC 470PF	10% 50V
D1302	8-719-000-12	DIODE MC931		C032	1-102-129-00	CERAMIC 0.01MF	10% 50V
D1303	8-719-000-12	DIODE MC931		C033	1-123-306-00	ELECT 47MF	20% 6.3V
D1304	8-719-911-19	DIODE 1SS119		C034	1-123-306-00	ELECT 47MF	20% 6.3V
D1305	8-719-911-19	DIODE 1SS119		C035	1-123-380-00	ELECT 1MF	20% 50V
IC				C036	1-123-380-00	ELECT 1MF	20% 50V
IC1301	8-759-913-37	IC TDA4560		C037	1-123-356-00	ELECT 10MF	20% 50V
COIL				C061	1-110-175-81	MYLAR 0.1MF	10% 100V
L1301	1-408-423-00	MICRO INDUCTOR 150UH		C062	1-101-361-00	CERAMIC 150PF	5% 50V
TRANSISTOR				C063	1-123-380-00	ELECT 1MF	20% 50V
Q1301	8-729-178-54	TRANSISTOR 2SC2785		C271	1-123-343-00	ELECT 33MF	20% 25V
RESISTOR				C273	1-123-359-00	ELECT 47MF	20% 50V
R1301	1-215-714-91	METAL 100 5% 1/6W		C274	1-123-364-00	ELECT 1000MF	20% 50V
R1302	1-215-714-91	METAL 100 5% 1/6W		C275	1-123-343-00	ELECT 33MF	20% 25V
R1303	1-215-423-00	METAL 1.2K 1% 1/6W		C276	1-123-359-00	ELECT 47MF	20% 50V
R1304	1-215-762-91	METAL 10K 5% 1/6W		C278	1-123-349-00	ELECT 1000MF	20% 35V
R1305	1-215-766-91	METAL 15K 5% 1/6W		C279	1-123-343-00	ELECT 33MF	20% 25V
R1306	1-215-190-00	METAL 39K 5% 1/4W		C280	1-123-349-00	ELECT 1000MF	20% 35V
R1307	1-215-776-91	METAL 39K 5% 1/6W		C281	1-123-360-00	ELECT 100MF	20% 50V
*****				C282	1-101-005-00	CERAMIC 0.022MF	50V
*A-1345-602-A D BOARD, COMPLETE *****				C283	1-101-005-00	CERAMIC 0.022MF	50V
CAPACITOR				C284	1-102-973-00	CERAMIC 100PF	5% 50V
C001	1-123-380-00	ELECT 1MF	20% 50V	C285	1-102-973-00	CERAMIC 100PF	5% 50V
C002	1-123-369-00	ELECT 4.7MF	20% 50V	C286	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C003	1-123-369-00	ELECT 4.7MF	20% 50V	C287	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C004	1-102-973-00	CERAMIC 100PF	5% 50V	C401	1-123-381-00	ELECT 2.2MF	20% 50V
C005	1-110-175-81	MYLAR 0.1MF	10% 100V	C402	1-110-175-81	MYLAR 0.1MF	10% 100V
				C403	1-102-816-00	CERAMIC 120PF	5% 50V
				C406	1-131-373-00	TANTALUM 22MF	10% 16V
				C407	1-110-182-81	MYLAR 0.022MF	10% 250V
				C408	1-102-973-00	CERAMIC 100PF	5% 50V
				C409	1-131-344-00	TANTALUM 0.33MF	10% 35V
				C410	1-123-369-00	ELECT 4.7MF	20% 50V
				C411	1-124-645-11	ELECT 10MF	20% 16V
				C412	1-123-381-00	ELECT 2.2MF	20% 50V
				C413	1-110-182-81	MYLAR 0.022MF	10% 250V
				C414	1-110-182-81	MYLAR 0.022MF	10% 250V
				C415	1-123-369-00	ELECT 4.7MF	20% 50V

D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C416	1-124-002-11	ELECT	1MF 20% 50V	C565	1-106-182-00	MYLAR 0.0027MF 10% 100V	
C417	1-131-344-00	TANTALUM	0.33MF 10% 35V	C566	1-123-318-00	ELECT 33MF 20% 16V	
C418	1-131-344-00	TANTALUM	0.33MF 10% 35V	C567	1-110-116-11	MYLAR 0.068MF 10% 250V	
C419	1-123-323-00	ELECT	470MF 20% 16V	C568	1-123-362-00	ELECT 330MF 20% 50V	
C420	1-110-182-81	MYLAR	0.022MF 10% 250V	C569	1-131-348-00	TANTALUM 1.5MF 10% 35V	
C421	1-110-182-81	MYLAR	0.022MF 10% 250V	C572	1-123-360-00	ELECT 100MF 20% 50V	
C422	1-110-182-81	MYLAR	0.022MF 10% 250V	C801	1-123-362-00	ELECT 330MF 20% 50V	
C423	1-101-880-00	CERAMIC	47PF 5% 50V	C803	1-110-192-81	MYLAR 0.015MF 10% 400V	
C424	1-110-182-81	MYLAR	0.022MF 10% 250V	C804	1-123-948-00	ELECT 22MF 20% 250V	
C425	1-110-182-81	MYLAR	0.022MF 10% 250V	C805	1-162-114-51	CERAMIC 0.0047MF 2KV	
C426	1-110-182-81	MYLAR	0.022MF 10% 250V	C806	1-110-170-81	MYLAR 0.039MF 10% 100V	
C427	1-110-179-81	MYLAR	0.22MF 10% 100V	C807	1-123-333-00	ELECT 100MF 20% 16V	
C428	1-110-179-81	MYLAR	0.22MF 10% 100V	C808	1-123-333-00	ELECT 100MF 20% 16V	
C429	1-110-179-81	MYLAR	0.22MF 10% 100V	C809	1-123-322-00	ELECT 330MF 20% 16V	
C430	1-123-318-00	ELECT	33MF 20% 16V	C810	1-123-024-00	ELECT 33MF 160V	
C431	1-123-318-00	ELECT	33MF 20% 16V	C811	1-136-308-11	FILM 0.68MF 5% 200V	
C432	1-123-318-00	ELECT	33MF 20% 16V	C812	1-123-943-00	ELECT 1MF 20% 250V	
C433	1-110-190-81	MYLAR	0.01MF 10% 400V	C813	1-102-244-00	CERAMIC 220PF 10% 500V	
C434	1-123-318-00	ELECT	33MF 20% 16V	C814	1-110-172-81	MYLAR 0.056MF 10% 100V	
C435	1-110-186-81	MYLAR	0.0047MF 10% 400V	C815	1-136-116-00	FILM 1MF 5% 200V	
C436	1-123-318-00	ELECT	33MF 20% 16V	C817	1-136-483-11	FILM 0.0095MF 3% 1.4KV	
C437	1-102-951-00	CERAMIC	15PF 5% 50V	C818	1-129-721-51	FILM 0.039MF 10% 630V	
C438	1-123-321-00	ELECT	220MF 20% 16V	C819	1-161-754-00	CERAMIC 0.001MF 10% 3KV	
C439	1-123-318-00	ELECT	33MF 20% 16V	C820	1-110-192-81	MYLAR 0.015MF 10% 400V	
C501	1-123-356-00	ELECT	10MF 20% 50V	C821	1-102-327-11	CERAMIC 330PF 15% 1.5KV	
C502	1-110-187-81	MYLAR	0.0056MF 10% 400V	C822	1-102-114-00	CERAMIC 470PF 10% 50V	
C503	1-110-175-81	MYLAR	0.1MF 10% 100V	C823	1-110-186-81	MYLAR 0.0047MF 10% 400V	
C504	1-123-332-00	ELECT	47MF 20% 16V	C824	1-102-157-00	CERAMIC 560PF 10% 500V	
C505	1-130-023-00	FILM	0.0027MF 5% 50V				
C506	1-110-175-81	MYLAR	0.1MF 10% 100V				
C508	1-123-379-00	ELECT	0.47MF 20% 50V				
C509	1-123-323-00	ELECT	470MF 20% 16V				
C511	1-108-614-91	MYLAR	0.001MF 10% 100V				
C512	1-124-013-11	ELECT	100MF 20% 16V				
C513	1-110-182-81	MYLAR	0.022MF 10% 250V				
C514	1-136-171-00	FILM	0.33MF 5% 50V				
C515	1-136-171-00	FILM	0.33MF 5% 50V				
C516	1-101-361-00	CERAMIC	150PF 5% 50V				
C517	1-123-380-00	ELECT	1MF 20% 50V				
C518	1-123-330-00	ELECT	22MF 20% 16V				
C519	1-110-174-81	MYLAR	0.082MF 10% 100V				
C520	1-123-379-00	ELECT	0.47MF 20% 50V				
C521	1-123-369-00	ELECT	4.7MF 20% 50V				
C522	1-123-380-00	ELECT	1MF 20% 50V				
C523	1-110-170-81	MYLAR	0.039MF 10% 100V				
C526	1-123-323-00	ELECT	470MF 20% 16V				
C527	1-123-336-00	ELECT	470MF 20% 25V				
C529	1-110-175-81	MYLAR	0.1MF 10% 100V				
C530	1-123-321-00	ELECT	220MF 20% 16V				
C560	1-129-743-00	FILM	0.022MF 10% 400V				
C561	1-123-357-00	ELECT	22MF 20% 50V				
C562	1-102-030-00	CERAMIC	330PF 10% 500V				
C563	1-123-931-00	ELECT	3.3MF 20% 160V				
C564	1-102-157-00	CERAMIC	560PF 10% 500V				

FILTER

CF001 1-567-686-11 OSCILLATOR, CERAMIC

CONNECTOR

CNP1 *1-564-346-00 CONNECTOR, BOARD TO BOARD 18P
 CNP2 *1-564-346-00 CONNECTOR, BOARD TO BOARD 18P
 CNP3 *1-564-346-00 CONNECTOR, BOARD TO BOARD 18P
 CNP4 *1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)
 D1 *1-564-884-11 PLUG, CONNECTOR 7P
 D2 *1-560-126-00 PLUG, CONNECTOR (2.5MM) 6P
 D3 *1-564-881-11 PLUG, CONNECTOR 4P
 D4 *1-564-880-31 PLUG, CONNECTOR 3P
 D5 *1-508-766-00 4P PLUG (M)
 D7 *1-508-765-00 3P PLUG (M)
 D8 *1-564-883-11 PLUG, CONNECTOR 6P
 D9 *1-560-125-00 PLUG, CONNECTOR (2.5MM) 5P
 D10 *1-560-126-00 PLUG, CONNECTOR (2.5MM PITCH)
 D11 *1-564-887-11 PLUG, CONNECTOR 10P
 D12 *1-564-879-21 PLUG, CONNECTOR 2P
 D13 *1-564-890-11 PLUG, CONNECTOR 13P
 D14 *1-560-123-00 PLUG, CONNECTOR (2.5MM PITCH)
 D15 *1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P
 D16 *1-564-880-31 PLUG, CONNECTOR 3P
 D17 *1-564-887-11 PLUG, CONNECTOR 10P

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D

Ref.No.	Part No.	Description
D18	*1-564-885-11	PLUG, CONNECTOR 8P
D19	*1-508-786-00	2P PLUG (M)
D20	*1-564-883-11	PLUG, CONNECTOR 6P
D21	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
D25	*1-508-784-00	1P PLUG
D26	*1-508-786-00	2P PLUG (M)
DY1	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P
<u>DIODE</u>		
D001	8-719-101-41	DIODE RD3.9E-L2
D002	8-719-911-19	DIODE 1SS119
D003	8-719-911-19	DIODE 1SS119
D004	8-719-911-19	DIODE 1SS119
D005	8-719-911-19	DIODE 1SS119
D006	8-719-911-19	DIODE 1SS119
D007	8-719-911-19	DIODE 1SS119
D008	8-719-102-71	DIODE RD5.6E-N2
D009	8-719-101-24	DIODE RD39E-B2
D011	8-719-102-71	DIODE RD5.6E-N2
D012	8-719-911-19	DIODE 1SS119
D013	8-719-911-19	DIODE 1SS119
D015	8-719-102-74	DIODE RD6.2E-N2
D016	8-719-911-19	DIODE 1SS119
D017	8-719-911-19	DIODE 1SS119
D271	8-719-911-19	DIODE 1SS119
D401	8-719-911-19	DIODE 1SS119
D402	8-719-911-19	DIODE 1SS119
D403	8-719-911-19	DIODE 1SS119
D404	8-719-911-19	DIODE 1SS119
D405	8-719-911-19	DIODE 1SS119
D406	8-719-911-19	DIODE 1SS119
D407	8-719-911-19	DIODE 1SS119
D408	8-719-911-19	DIODE 1SS119
D409	8-719-911-19	DIODE 1SS119
D412	8-719-911-19	DIODE 1SS119
D413	8-719-911-19	DIODE 1SS119
D414	8-719-911-19	DIODE 1SS119
D415	8-719-911-19	DIODE 1SS119
D416	8-719-911-19	DIODE 1SS119
D417	8-719-911-19	DIODE 1SS119
D418	8-719-911-19	DIODE 1SS119
D419	8-719-911-19	DIODE 1SS119
D421	8-719-102-71	DIODE RD5.6E-N2
D422	8-719-911-19	DIODE 1SS119
D423	8-719-911-19	DIODE 1SS119
D424	8-719-911-19	DIODE 1SS119
D425	8-719-911-19	DIODE 1SS119
D426	8-719-911-19	DIODE 1SS119
D427	8-719-911-19	DIODE 1SS119
D428	8-719-911-19	DIODE 1SS119
D501	8-719-911-19	DIODE 1SS119
D502	8-719-911-19	DIODE 1SS119
D503	8-719-911-19	DIODE 1SS119
D504	8-719-911-19	DIODE 1SS119
D506	8-719-911-19	DIODE 1SS119

Remark	Ref.No.	Part No.	Description	Remark
	D507	8-719-911-19	DIODE 1SS119	
	D508	8-719-911-19	DIODE 1SS119	
	D509	8-719-911-19	DIODE 1SS119	
	D510	8-719-911-19	DIODE 1SS119	
	D511	8-719-911-19	DIODE 1SS119	
	D560	8-719-901-93	DIODE V19E	
	D561	8-719-901-93	DIODE V19E	
	D562	8-719-901-93	DIODE V19E	
	D563	8-719-901-93	DIODE V19E	
	D564	8-719-911-19	DIODE 1SS119	
	D801	8-719-901-93	DIODE V19E	
	D802	8-719-901-93	DIODE V19E	
	D803	8-719-300-65	DIODE ES1F	
	D804	8-719-901-93	DIODE V19E	
	D805	8-719-901-93	DIODE V19E	
	D806	A 8-719-906-15	DIODE ERC26-15S	
	D807	A 8-719-906-15	DIODE ERC26-15S	
	D808	8-719-900-26	DIODE ERD29-08J	
	<u>IC</u>			
	IC001	8-759-603-96	IC M50436-515SP	
	IC002	8-759-603-41	IC M58655P	
	IC004	8-759-157-40	IC UPC574J	
	IC251	8-749-943-62	IC STK-4362	
		*4-368-684-01	SPRING (L); IC251	
	IC402	8-759-911-10	IC TDA3505	
	IC403	8-759-007-21	IC MC74HC4053N	
	IC404	8-759-007-21	IC MC74HC4053N	
	IC501	8-759-915-46	IC TDA2579	
		*4-375-717-01	HEAT SINK, IC; IC501	
	IC502	8-759-403-61	IC AN78M12R	
	<u>MODULE</u>			
	IC401	1-235-534-11	CONTROL MODULE, PICTURE	
	<u>COIL</u>			
	L001	1-408-413-00	MICRO INDUCTOR 22UH	
	L002	1-408-425-00	MICRO INDUCTOR 220UH	
	L003	1-408-421-00	MICRO INDUCTOR 100UH	
	L802	1-421-329-00	COIL, CHOKE	
	L803	1-437-090-00	HDT	
	L804	1-408-239-00	MICRO INDUCTOR 4.7MMH	
	L805	1-459-626-11	HLC	
	L806	1-421-329-00	COIL, CHOKE	
	L807	1-407-365-00	COIL, CHOKE	
	L808	1-407-365-00	COIL, CHOKE	
	L809	1-407-365-00	COIL, CHOKE	
	L810	1-459-390-00	COIL (WITH CORE)	
	<u>TRANSISTOR</u>			
	Q001	8-729-177-32	TRANSISTOR 2SD773	
	Q002	8-729-117-54	TRANSISTOR 2SA1175	
	Q003	8-729-900-63	TRANSISTOR DTA124ES	

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R071	1-215-730-91	METAL	470 5% 1/6W	R429	1-215-200-00	METAL	100K 5% 1/4W
R078	1-215-770-91	METAL	22K 5% 1/6W	R430	1-215-796-91	METAL	270K 5% 1/6W
R079	1-215-772-91	METAL	27K 5% 1/6W	R431	1-215-754-91	METAL	4.7K 5% 1/6W
R080	1-215-738-91	METAL	1K 5% 1/6W				
R081	1-215-766-91	METAL	15K 5% 1/6W	R433	1-215-720-91	METAL	180 5% 1/6W
				R434	1-215-720-91	METAL	180 5% 1/6W
R082	1-215-754-91	METAL	4.7K 5% 1/6W	R435	1-215-720-91	METAL	180 5% 1/6W
R084	1-215-750-91	METAL	3.3K 5% 1/6W	R436	1-215-778-91	METAL	47K 5% 1/6W
R085	1-215-754-91	METAL	4.7K 5% 1/6W	R437	1-215-144-00	METAL	470 5% 1/4W
R086	1-215-746-91	METAL	2.2K 5% 1/6W				
R087	1-247-688-11	CARBON	10 5% 1/4W F	R438	1-215-738-91	METAL	1K 5% 1/6W
R088	1-215-730-91	METAL	470 5% 1/6W	R439	1-215-394-00	METAL	75 1% 1/6W
				R440	1-215-394-00	METAL	75 1% 1/6W
R089	1-215-746-91	METAL	2.2K 5% 1/6W	R441	1-215-394-00	METAL	75 1% 1/6W
R090	1-215-762-91	METAL	10K 5% 1/6W	R442	1-214-702-00	METAL	75 1% 1/4W
R091	1-215-770-91	METAL	22K 5% 1/6W				
R092	1-215-810-91	METAL	1M 5% 1/6W	R443	1-215-802-91	METAL	470K 5% 1/6W
R093	1-215-762-91	METAL	10K 5% 1/6W	R444	1-215-802-91	METAL	470K 5% 1/6W
R094	1-215-762-91	METAL	10K 5% 1/6W	R445	1-215-802-91	METAL	470K 5% 1/6W
				R447	1-215-744-91	METAL	1.8K 5% 1/6W
R095	1-215-738-91	METAL	1K 5% 1/6W	R448	1-215-744-91	METAL	1.8K 5% 1/6W
R096	1-215-766-91	METAL	15K 5% 1/6W				
R097	1-215-754-91	METAL	4.7K 5% 1/6W	R449	1-215-744-91	METAL	1.8K 5% 1/6W
R271	1-215-734-91	METAL	680 5% 1/6W	R450	1-215-744-91	METAL	1.8K 5% 1/6W
				R451	1-215-744-91	METAL	1.8K 5% 1/6W
R272	1-215-734-91	METAL	680 5% 1/6W	R452	1-215-744-91	METAL	1.8K 5% 1/6W
R273	1-215-730-91	METAL	470 5% 1/6W	R454	1-215-714-91	METAL	100 5% 1/6W
R274	1-215-730-91	METAL	470 5% 1/6W				
R275	1-215-746-91	METAL	2.2K 5% 1/6W	R455	1-215-714-91	METAL	100 5% 1/6W
R278	1-249-393-11	CARBON	10 5% 1/6W F	R456	1-215-714-91	METAL	100 5% 1/6W
				R457	1-215-738-91	METAL	1K 5% 1/6W
R279	1-249-393-11	CARBON	10 5% 1/6W F	R458	1-215-738-91	METAL	1K 5% 1/6W
R280	1-215-786-91	METAL	100K 5% 1/6W	R459	1-215-738-91	METAL	1K 5% 1/6W
R281	1-215-762-91	METAL	10K 5% 1/6W				
R284	1-247-700-11	CARBON	100 5% 1/4W F	R460	1-215-738-91	METAL	1K 5% 1/6W
R285	1-215-762-91	METAL	10K 5% 1/6W	R461	1-215-732-91	METAL	560 5% 1/6W
				R464	1-215-152-00	METAL	1K 5% 1/4W
R287	1-215-786-91	METAL	100K 5% 1/6W	R465	1-247-711-11	CARBON	680 5% 1/4W F
R288	1-215-202-00	METAL	120K 5% 1/4W	R466	1-215-730-91	METAL	470 5% 1/6W
R289	1-215-778-91	METAL	47K 5% 1/6W				
R401	1-215-750-91	METAL	3.3K 5% 1/6W	R467	1-215-730-91	METAL	470 5% 1/6W
R402	1-215-762-91	METAL	10K 5% 1/6W	R468	1-247-232-00	CARBON	470 5% 1/2W
				R469	1-215-730-91	METAL	470 5% 1/6W
R403	1-215-762-91	METAL	10K 5% 1/6W	R501	1-215-722-91	METAL	220 5% 1/6W
R404	1-215-752-91	METAL	3.9K 5% 1/6W	R502	1-215-748-91	METAL	2.7K 5% 1/6W
R405	1-215-730-91	METAL	470 5% 1/6W				
R406	1-215-730-91	METAL	470 5% 1/6W	R503	1-215-730-91	METAL	470 5% 1/6W
R408	1-215-732-91	METAL	560 5% 1/6W	R504	1-215-180-00	METAL	15K 5% 1/4W
				R505	1-215-754-91	METAL	4.7K 5% 1/6W
R409	1-215-762-91	METAL	10K 5% 1/6W	R506	1-215-750-91	METAL	3.3K 5% 1/6W
R410	1-215-216-81	METAL	470K 5% 1/4W	R507	1-215-752-91	METAL	3.9K 5% 1/6W
R411	1-215-810-91	METAL	1M 5% 1/6W				
R412	1-215-784-91	METAL	82K 5% 1/6W	R508	1-215-756-91	METAL	5.6K 5% 1/6W
R413	1-215-798-91	METAL	330K 5% 1/6W	R509	1-215-722-91	METAL	220 5% 1/6W
				R510	1-216-464-11	METAL OXIDE	18K 5% 2W F
R414	1-215-772-91	METAL	27K 5% 1/6W	R511	1-214-763-00	METAL	27K 1% 1/4W
R415	1-215-792-91	METAL	180K 5% 1/6W	R513	1-215-790-91	METAL	150K 5% 1/6W
R416	1-215-770-91	METAL	22K 5% 1/6W				
R417	1-215-786-91	METAL	100K 5% 1/6W	R516	1-215-190-00	METAL	39K 5% 1/4W
R418	1-215-734-91	METAL	680 5% 1/6W	R517	1-215-746-91	METAL	2.2K 5% 1/6W
				R519	1-215-128-00	METAL	100 5% 1/4W
R419	1-215-206-81	METAL	180K 5% 1/4W	R522	1-215-764-91	METAL	12K 5% 1/6W
R420	1-215-778-91	METAL	47K 5% 1/6W	R523	1-215-738-91	METAL	1K 5% 1/6W
R421	1-215-778-91	METAL	47K 5% 1/6W				
R422	1-215-154-00	METAL	1.2K 5% 1/4W	R525	1-202-463-00	SOL ID	2.2M 5% 1/4W
R423	1-215-710-91	METAL	68 5% 1/6W	R526	1-202-463-00	SOL ID	2.2M 5% 1/4W
				R527	1-215-714-91	METAL	100 5% 1/6W
R424	1-215-463-00	METAL	56K 1% 1/6W				
R425	1-215-756-91	METAL	5.6K 5% 1/6W				
R426	1-215-714-91	METAL	100 5% 1/6W				
R427	1-215-128-00	METAL	100 5% 1/4W				
R428	1-215-764-91	METAL	12K 5% 1/6W				

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R528	1-215-714-91	METAL	100 5% 1/6W	R809	1-202-826-00	SOLID 4.7K 10% 1/2W	
R529	1-215-740-91	METAL	1.2K 5% 1/6W	R810	1-202-824-00	SOLID 3.3K 10% 1/2W	
R530	1-215-728-91	METAL	390 5% 1/6W	R811	1-217-430-00	FUSIBLE 4.7 5% 1/2W F	
R531	1-215-770-91	METAL	22K 5% 1/6W	R812	1-249-448-11	CARBON 1.2 5% 1/4W F	
R532	1-215-748-91	METAL	2.7K 5% 1/6W	R813	1-217-430-00	FUSIBLE 4.7 5% 1/2W F	
R533	1-215-164-00	METAL	3.3K 5% 1/4W	R814	1-244-925-00	CARBON 150K 5% 1/2W	
R534	1-215-469-00	METAL	100K 1% 1/6W	R815	1-215-884-11	METAL OXIDE 47 5% 2W F	
R535	1-215-198-00	METAL	82K 5% 1/4W	R816	1-215-870-11	METAL OXIDE 1.5K 5% 1W F	
R536	1-215-738-91	METAL	1K 5% 1/6W	R817	1-207-678-00	WIREWOUND 10 10% 5W F	
R537	1-215-758-91	METAL	6.8K 5% 1/6W	R818	1-207-678-00	WIREWOUND 10 10% 5W F	
R538	1-215-712-91	METAL	82 5% 1/6W	R819	1-215-202-00	METAL 120K 5% 1/4W	
R539	1-215-481-00	METAL	330K 1% 1/6W	R820	1-215-710-91	METAL 68 5% 1/6W	
R540	1-215-744-91	METAL	1.8K 5% 1/6W	R821	1-215-158-00	METAL 1.8K 5% 1/4W	
R541	1-215-786-91	METAL	100K 5% 1/6W	R822	1-247-749-11	CARBON 560 5% 1/2W F	
R542	1-215-212-00	METAL	330K 5% 1/4W	R823	1-216-345-11	METAL OXIDE 0.47 5% 1W F	
R543	1-210-825-00	SOLID	3.3M 5% 1/4W	R825	1-216-348-00	METAL OXIDE 0.82 5% 1W F	
R544	1-210-825-00	SOLID	3.3M 5% 1/4W	VARIABLE RESISTOR			
R546	1-215-200-00	METAL	100K 5% 1/4W	RV401	1-230-630-11	RES, ADJ, CARBON 10K	
R549	1-215-738-91	METAL	1K 5% 1/6W	RV402	1-230-630-11	RES, ADJ, CARBON 10K	
R552	1-215-738-91	METAL	1K 5% 1/6W	RV501	1-226-703-00	RES, ADJ, METAL GLAZE 10K	
R560	1-247-700-11	CARBON	100 5% 1/4W F	RV502	1-226-776-00	RES, ADJ, METAL GLAZE 220K	
R561	1-215-182-00	METAL	18K 5% 1/4W	RV503	1-226-775-00	RES, ADJ, METAL GLAZE 100K	
R562	1-215-869-11	METAL OXIDE	1K 5% 1W F	RV560	1-230-271-00	RES, ADJ, CARBON 4.7K	
R563	1-247-690-11	CARBON	15 5% 1/4W F	RV801	1-230-271-00	RES, ADJ, CARBON 4.7K	
R564	1-216-350-11	METAL OXIDE	1.2 5% 1W F	SPARK GAP			
R566	1-216-350-11	METAL OXIDE	1.2 5% 1W F	SG801	1-519-063-XX	DISCHARGING GAP	
R567	1-249-405-11	CARBON	100 5% 1/6W F	TRANSFORMER			
R568	1-215-746-91	METAL	2.2K 5% 1/6W	T801	1-437-090-00	HDT	
R569	1-249-393-11	CARBON	10 5% 1/6W F	THERMISTOR			
R570	1-215-148-00	METAL	680 5% 1/4W	TH560	1-806-213-00	THERMISTOR	
R571	1-215-479-00	METAL	270K 1% 1/6W	*****			
R572	1-215-766-91	METAL	15K 5% 1/6W	*A-1345-612-A D2 BOARD, COMPLETE			
R573	1-215-726-91	METAL	330 5% 1/6W	*****			
R574	1-215-694-91	METAL	15 5% 1/6W	FILTER			
R575	1-215-164-00	METAL	3.3K 5% 1/4W	BPF301	1-235-835-11	FILTER, BAND PASS	
R576	1-215-104-81	METAL	10 5% 1/4W	CAPACITOR			
R577	1-216-354-11	METAL OXIDE	2.7 5% 1W F	C301	1-102-980-00	CERAMIC 270PF 5% 50V	
R580	1-249-399-11	CARBON	33 5% 1/6W F	C302	1-102-980-00	CERAMIC 270PF 5% 50V	
R583	1-215-872-11	METAL OXIDE	3.3K 5% 1W F	C303	1-102-525-00	CERAMIC 68PF 5% 50V	
R584	1-215-152-00	METAL	1K 5% 1/4W	C304	1-102-735-00	CERAMIC 120PF 5% 50V	
R585	1-249-382-11	CARBON	1.2 5% 1/6W F	C305	1-102-514-00	CERAMIC 22PF 5% 50V	
R586	1-249-382-11	CARBON	1.2 5% 1/6W F	C306	1-102-514-00	CERAMIC 22PF 5% 50V	
R587	1-216-458-11	METAL OXIDE	1.8K 5% 2W F	C307	1-102-735-00	CERAMIC 120PF 5% 50V	
R588	1-215-790-91	METAL	150K 5% 1/6W	C308	1-102-525-00	CERAMIC 68PF 5% 50V	
R589	1-215-762-91	METAL	10K 5% 1/6W				
R801	1-247-270-00	CARBON	18K 5% 1/2W				
R802	1-249-448-51	CARBON	1.2 5% 1/4W F				
R803	1-215-883-51	METAL OXIDE	33 5% 2W F				
R804	1-216-378-11	METAL OXIDE	5.6 5% 2W F				
R805	1-249-448-51	CARBON	1.2 5% 1/4W F				
R806	1-215-216-81	METAL	470K 5% 1/4W				
R807	1-215-869-51	METAL OXIDE	1K 5% 1W F				
R808	1-202-845-00	SOLID	390K 10% 1/2W				

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C309	1-101-004-00	CERAMIC	0.01MF				
C310	1-110-190-81	MYLAR	0.01MF				
C311	1-110-182-81	MYLAR	0.022MF				
C312	1-110-089-11	MYLAR	0.1MF				
C313	1-123-322-00	ELECT	330MF				
C314	1-123-380-00	ELECT	1MF				
C316	1-110-171-81	MYLAR	0.047MF				
C317	1-136-173-00	FILM	0.47MF				
C318	1-101-006-00	CERAMIC	0.047MF				
C320	1-110-182-81	MYLAR	0.022MF				
C321	1-102-074-00	CERAMIC	0.001MF				
C322	1-102-679-00	CERAMIC	120PF				
C323	1-102-074-00	CERAMIC	0.001MF				
C324	1-101-004-00	CERAMIC	0.01MF				
C325	1-101-004-00	CERAMIC	0.01MF				
C327	1-102-662-00	CERAMIC	7PF				
C328	1-102-662-00	CERAMIC	7PF				
C329	1-102-662-00	CERAMIC	7PF				
C330	1-102-662-00	CERAMIC	7PF				
C331	1-123-318-00	ELECT	33MF				
C332	1-123-321-00	ELECT	220MF				
C334	1-101-361-00	CERAMIC	150PF				
C341	1-102-973-00	CERAMIC	100PF				
C342	1-102-973-00	CERAMIC	100PF				
C343	1-102-531-00	CERAMIC	150PF				
<u>CONNECTOR</u>				<u>TRANSISTOR</u>			
CNJ2	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P		Q301	8-729-178-54	TRANSISTOR 2SC2785	
<u>TRIMMER</u>				Q302	8-729-178-54	TRANSISTOR 2SC2785	
CT301	1-141-181-11	CAP, TRIMMER		Q305	8-729-178-54	TRANSISTOR 2SC2785	
<u>DIODE</u>				Q309	8-729-178-54	TRANSISTOR 2SC2785	
D306	8-719-000-12	DIODE MC931		Q312	8-729-178-54	TRANSISTOR 2SC2785	
<u>DELAY LINE</u>				Q313	8-729-178-54	TRANSISTOR 2SC2785	
DL301	1-415-187-12	DELAY LINE		Q315	8-729-178-54	TRANSISTOR 2SC2785	
<u>IC</u>				<u>RESISTOR</u>			
IC301	8-759-915-57	IC TDA4555		R301	1-215-740-91	METAL 1.2K 5% 1/6W	
<u>COIL</u>				R302	1-215-734-91	METAL 680 5% 1/6W	
L301	1-404-554-11	COIL		R303	1-215-728-91	METAL 390 5% 1/6W	
L302	1-404-554-11	COIL		R304	1-215-728-91	METAL 390 5% 1/6W	
L303	1-404-554-11	COIL		R305	1-215-154-00	METAL 1.2K 5% 1/4W	
L304	1-408-408-00	MICRO INDUCTOR 8.2UH		R306	1-215-762-91	METAL 10K 5% 1/6W	
L305	1-404-554-11	COIL		R307	1-214-746-00	METAL 5.1K 1% 1/4W	
L306	1-408-429-00	MICRO INDUCTOR 470UH		R311	1-215-782-91	METAL 68K 5% 1/6W	
L307	1-404-495-00	COIL		R312	1-215-146-00	METAL 560 5% 1/4W	
L309	1-404-495-00	COIL		R313	1-215-770-91	METAL 22K 5% 1/6W	
L310	1-408-423-00	MICRO INDUCTOR 150UH		R315	1-215-778-91	METAL 47K 5% 1/6W	
L312	1-408-423-00	MICRO INDUCTOR 150UH		R317	1-215-786-91	METAL 100K 5% 1/6W	
				R318	1-215-742-91	METAL 1.5K 5% 1/6W	
				R319	1-215-724-91	METAL 270 5% 1/6W	
				R320	1-215-736-91	METAL 820 5% 1/6W	
				R321	1-215-738-91	METAL 1K 5% 1/6W	
				R322	1-215-724-91	METAL 270 5% 1/6W	
				R323	1-215-742-91	METAL 1.5K 5% 1/6W	
				R324	1-215-714-91	METAL 100 5% 1/6W	
				R325	1-215-774-91	METAL 33K 5% 1/6W	
				R326	1-215-736-91	METAL 820 5% 1/6W	
				R327	1-215-776-91	METAL 39K 5% 1/6W	
				R328	1-215-744-91	METAL 1.8K 5% 1/6W	
				R331	1-215-736-91	METAL 820 5% 1/6W	
				R332	1-215-736-91	METAL 820 5% 1/6W	
				R334	1-215-190-00	METAL 39K 5% 1/4W	
				R349	1-215-714-91	METAL 100 5% 1/6W	
				R352	1-215-190-00	METAL 39K 5% 1/4W	
				R356	1-215-794-91	METAL 220K 5% 1/6W	
				R357	1-215-794-91	METAL 220K 5% 1/6W	
				R358	1-215-770-91	METAL 22K 5% 1/6W	
				R359	1-215-762-91	METAL 10K 5% 1/6W	
				R360	1-215-778-91	METAL 47K 5% 1/6W	
				R361	1-215-734-91	METAL 680 5% 1/6W	
				R362	1-215-734-91	METAL 680 5% 1/6W	
				R363	1-215-706-91	METAL 47 5% 1/6W	
				R369	1-215-738-91	METAL 1K 5% 1/6W	
				<u>VARIABLE RESISTOR</u>			
				RV301	1-230-624-51	RES, ADJ, CARBON 220	

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J1

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>TRANSFORMER</u>				C1238	1-110-186-81	MYLAR	0.0047MF 10% 400V
T301	1-404-584-11	COIL		C1239	1-110-186-81	MYLAR	0.0047MF 10% 400V
<u>THERMISTOR</u>				C1240	1-110-182-81	MYLAR	0.022MF 10% 250V
TH301	1-800-644-00	THERMISTOR		C1241	1-110-182-81	MYLAR	0.022MF 10% 250V
<u>CRYSTAL</u>				C1242	1-123-380-00	ELECT	1MF 20% 50V
X301	1-567-131-00	OSCILLATOR, CRYSTAL		C1250	1-123-332-00	ELECT	47MF 20% 16V
*****				C1251	1-102-976-00	CERAMIC	180PF 5% 50V
*A-1371-170-A J1 BOARD, COMPLETE				C1252	1-123-307-00	ELECT	100MF 20% 10V
*****				C1253	1-123-307-00	ELECT	100MF 20% 10V
<u>CAPACITOR</u>				C1254	1-102-976-00	CERAMIC	180PF 5% 50V
C1201	1-123-379-00	ELECT	0.47MF 20% 50V	C1255	1-123-332-00	ELECT	47MF 20% 16V
C1202	1-102-824-21	CERAMIC	470PF 5% 50V	C1256	1-110-171-81	MYLAR	0.047MF 10% 100V
C1203	1-102-824-21	CERAMIC	470PF 5% 50V	C1257	1-123-332-00	ELECT	47MF 20% 16V
C1204	1-123-332-00	ELECT	47MF 20% 16V	C1258	1-123-332-00	ELECT	47MF 20% 16V
C1205	1-123-332-00	ELECT	47MF 20% 16V	C1259	1-123-333-00	ELECT	100MF 20% 16V
C1206	1-123-379-00	ELECT	0.47MF 20% 50V	C1260	1-110-182-81	MYLAR	0.022MF 10% 250V
C1207	1-102-824-21	CERAMIC	470PF 5% 50V	C1261	1-110-182-81	MYLAR	0.022MF 10% 250V
C1208	1-102-824-21	CERAMIC	470PF 5% 50V	<u>CONNECTOR</u>			
C1209	1-123-330-00	ELECT	22MF 20% 16V	CN1201	1-561-534-41	SOCKET 21P	
C1210	1-123-380-00	ELECT	1MF 20% 50V	CN1202	1-561-534-41	SOCKET 21P	
C1211	1-123-330-00	ELECT	22MF 20% 16V	CN1203	1-536-996-11	TERMINAL BOARD, INPUT/OUTPUT	
C1212	1-123-380-00	ELECT	1MF 20% 50V	J1	*1-564-899-31	PLUG, CONNECTOR 10P	
C1213	1-102-824-21	CERAMIC	470PF 5% 50V	J2	*1-564-897-11	PLUG, CONNECTOR 8P	
C1214	1-123-380-00	ELECT	1MF 20% 50V	J3	*1-564-895-21	PLUG, CONNECTOR 6P	
C1215	1-102-074-00	CERAMIC	0.001MF 10% 50V	J4	*1-564-891-11	PLUG, CONNECTOR 2P	
C1216	1-102-824-21	CERAMIC	470PF 5% 50V	J5	*1-564-891-11	PLUG, CONNECTOR 2P	
C1217	1-123-380-00	ELECT	1MF 20% 50V	J6	*1-564-895-21	PLUG, CONNECTOR 6P	
C1218	1-102-074-00	CERAMIC	0.001MF 10% 50V	J7	*1-564-894-11	PLUG, CONNECTOR 5P	
C1219	1-123-307-00	ELECT	100MF 20% 10V	J8	*1-564-895-21	PLUG, CONNECTOR 6P	
C1220	1-123-307-00	ELECT	100MF 20% 10V	<u>DIODE</u>			
C1221	1-123-307-00	ELECT	100MF 20% 10V	D1201	8-719-102-81	DIODE RD7.5E-N2	
C1222	1-110-171-81	MYLAR	0.047MF 10% 100V	D1202	8-719-102-81	DIODE RD7.5E-N2	
C1223	1-110-171-81	MYLAR	0.047MF 10% 100V	D1203	8-719-102-81	DIODE RD7.5E-N2	
C1224	1-108-614-91	MYLAR	0.001MF 10% 100V	D1204	8-719-102-81	DIODE RD7.5E-N2	
C1225	1-123-321-00	ELECT	220MF 20% 16V	D1205	8-719-102-81	DIODE RD7.5E-N2	
C1226	1-123-332-00	ELECT	47MF 20% 16V	D1206	8-719-102-81	DIODE RD7.5E-N2	
C1227	1-123-307-00	ELECT	100MF 20% 10V	D1207	8-719-000-12	DIODE MC931	
C1228	1-110-171-81	MYLAR	0.047MF 10% 100V	D1208	8-719-000-12	DIODE MC931	
C1229	1-108-614-91	MYLAR	0.001MF 10% 100V	D1209	8-719-815-55	DIODE 1S1555	
C1230	1-123-380-00	ELECT	1MF 20% 50V	D1210	8-719-000-12	DIODE MC931	
C1231	1-123-333-00	ELECT	100MF 20% 16V	D1211	8-719-000-12	DIODE MC931	
C1232	1-110-184-81	MYLAR	0.033MF 10% 250V	D1212	8-719-000-12	DIODE MC931	
C1233	1-123-379-00	ELECT	0.47MF 20% 50V	D1213	8-719-102-81	DIODE RD7.5E-N2	
C1234	1-123-379-00	ELECT	0.47MF 20% 50V	D1214	8-719-102-81	DIODE RD7.5E-N2	
C1235	1-123-381-00	ELECT	2.2MF 20% 50V	D1215	8-719-000-06	DIODE MC921	
C1236	1-110-186-81	MYLAR	0.0047MF 10% 400V	D1216	8-719-911-19	DIODE 1SS119	
C1237	1-123-381-00	ELECT	2.2MF 20% 50V	D1217	8-719-911-19	DIODE 1SS119	
				D1218	8-719-911-19	DIODE 1SS119	
				D1219	8-719-911-19	DIODE 1SS119	
				D1220	8-719-815-55	DIODE 1S1555	

J1

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D1221	8-719-102-97	DIODE RD12E-N2		R1215	1-215-772-91	METAL 27K 5% 1/6W	
D1222	8-719-102-97	DIODE RD12E-N2		R1216	1-215-770-91	METAL 22K 5% 1/6W	
D1223	8-719-911-19	DIODE 1SS119		R1217	1-215-736-91	METAL 820 5% 1/6W	
D1224	8-719-911-19	DIODE 1SS119		R1218	1-215-772-91	METAL 27K 5% 1/6W	
D1225	8-719-815-55	DIODE 1S1555		R1219	1-215-184-00	METAL 22K 5% 1/4W	
<u>IC</u>				R1220	1-215-778-91	METAL 47K 5% 1/6W	
IC1201	8-759-914-76	IC CX20199		R1221	1-215-778-91	METAL 47K 5% 1/6W	
IC1202	8-759-145-58	IC UPC4558C		R1222	1-215-772-91	METAL 27K 5% 1/6W	
<u>COIL</u>				R1223	1-215-772-91	METAL 27K 5% 1/6W	
L1201	1-459-407-00	COIL, FERRITE CHOKE		R1224	1-215-712-91	METAL 82 5% 1/6W	
L1202	1-459-407-00	COIL, FERRITE CHOKE		R1225	1-215-128-00	METAL 100 5% 1/4W	
<u>TRANSISTOR</u>				R1226	1-215-712-91	METAL 82 5% 1/6W	
Q1203	8-729-117-54	TRANSISTOR 2SA1175		R1227	1-215-714-91	METAL 100 5% 1/6W	
Q1204	8-729-178-54	TRANSISTOR 2SC2785		R1230	1-215-714-91	METAL 100 5% 1/6W	
Q1205	8-729-117-54	TRANSISTOR 2SA1175		R1231	1-215-394-00	METAL 75 1% 1/6W	
Q1206	8-729-117-54	TRANSISTOR 2SA1175		R1232	1-215-762-91	METAL 10K 5% 1/6W	
Q1207	8-729-900-65	TRANSISTOR DTA144ES		R1233	1-215-762-91	METAL 10K 5% 1/6W	
Q1208	8-729-178-54	TRANSISTOR 2SC2785		R1234	1-215-772-91	METAL 27K 5% 1/6W	
Q1209	8-729-117-54	TRANSISTOR 2SA1175		R1235	1-215-772-91	METAL 27K 5% 1/6W	
Q1210	8-729-117-54	TRANSISTOR 2SA1175		R1236	1-215-128-00	METAL 100 5% 1/4W	
Q1211	8-729-178-54	TRANSISTOR 2SC2785		R1237	1-215-176-00	METAL 10K 5% 1/4W	
Q1212	8-729-178-54	TRANSISTOR 2SC2785		R1238	1-215-176-00	METAL 10K 5% 1/4W	
Q1213	8-729-900-89	TRANSISTOR DTC144ES		R1239	1-215-176-00	METAL 10K 5% 1/4W	
Q1214	8-729-900-89	TRANSISTOR DTC144ES		R1240	1-247-700-11	CARBON 100 5% 1/4W F	
Q1215	8-729-117-54	TRANSISTOR 2SA1175		R1241	1-215-168-00	METAL 4.7K 5% 1/4W	
Q1216	8-729-117-54	TRANSISTOR 2SA1175		R1242	1-215-754-91	METAL 4.7K 5% 1/6W	
Q1217	8-729-178-54	TRANSISTOR 2SC2785		R1243	1-215-738-91	METAL 1K 5% 1/6W	
Q1218	8-729-178-54	TRANSISTOR 2SC2785		R1244	1-215-742-91	METAL 1.5K 5% 1/6W	
Q1219	8-729-900-89	TRANSISTOR DTC144ES		R1245	1-215-810-91	METAL 1M 5% 1/6W	
Q1220	8-729-900-89	TRANSISTOR DTC144ES		R1246	1-215-762-91	METAL 10K 5% 1/6W	
Q1221	8-729-117-54	TRANSISTOR 2SA1175		R1247	1-215-742-91	METAL 1.5K 5% 1/6W	
Q1222	8-729-900-36	TRANSISTOR DTC124ES		R1248	1-215-738-91	METAL 1K 5% 1/6W	
Q1223	8-729-178-54	TRANSISTOR 2SC2785		R1249	1-215-778-91	METAL 47K 5% 1/6W	
Q1224	8-729-178-54	TRANSISTOR 2SC2785		R1250	1-215-762-91	METAL 10K 5% 1/6W	
<u>RESISTOR</u>				R1251	1-215-168-00	METAL 4.7K 5% 1/4W	
R1201	1-215-802-91	METAL 470K 5% 1/6W		R1252	1-215-778-91	METAL 47K 5% 1/6W	
R1202	1-215-186-00	METAL 27K 5% 1/4W		R1253	1-215-778-91	METAL 47K 5% 1/6W	
R1203	1-215-778-91	METAL 47K 5% 1/6W		R1254	1-247-698-11	CARBON 68 5% 1/4W F	
R1204	1-215-730-91	METAL 470 5% 1/6W		R1255	1-215-702-91	METAL 33 5% 1/6W	
R1205	1-215-778-91	METAL 47K 5% 1/6W		R1256	1-215-754-91	METAL 4.7K 5% 1/6W	
R1206	1-215-730-91	METAL 470 5% 1/6W		R1257	1-215-754-91	METAL 4.7K 5% 1/6W	
R1207	1-215-762-91	METAL 10K 5% 1/6W		R1258	1-215-750-91	METAL 3.3K 5% 1/6W	
R1208	1-215-762-91	METAL 10K 5% 1/6W		R1259	1-215-750-91	METAL 3.3K 5% 1/6W	
R1209	1-215-712-91	METAL 82 5% 1/6W		R1260	1-247-698-11	CARBON 68 5% 1/4W F	
R1210	1-215-712-91	METAL 82 5% 1/6W		R1261	1-215-394-00	METAL 75 1% 1/6W	
R1211	1-215-802-91	METAL 470K 5% 1/6W		R1262	1-215-738-91	METAL 1K 5% 1/6W	
R1212	1-215-772-91	METAL 27K 5% 1/6W		R1263	1-215-752-91	METAL 3.9K 5% 1/6W	
R1213	1-215-712-91	METAL 82 5% 1/6W		R1264	1-215-760-91	METAL 8.2K 5% 1/6W	
R1214	1-215-736-91	METAL 820 5% 1/6W		R1265	1-215-760-91	METAL 8.2K 5% 1/6W	
				R1266	1-215-752-91	METAL 3.9K 5% 1/6W	
				R1267	1-215-394-00	METAL 75 1% 1/6W	
				R1268	1-215-702-91	METAL 33 5% 1/6W	
				R1269	1-215-750-91	METAL 3.3K 5% 1/6W	

J1

H1

H2

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R1270	1-215-774-91	METAL 33K 5% 1/6W		S1402	1-554-804-11	SWITCH, PUSH (1 KEY)	
R1271	1-215-774-91	METAL 33K 5% 1/6W		S1403	1-554-804-11	SWITCH, PUSH (1 KEY)	
R1272	1-215-750-91	METAL 3.3K 5% 1/6W		S1404	1-554-804-11	SWITCH, PUSH (1 KEY)	
R1273	1-215-732-91	METAL 560 5% 1/6W		S1405	1-554-804-11	SWITCH, PUSH (1 KEY)	
R1274	1-247-698-11	CARBON 68 5% 1/4W	F	S1406	1-554-804-11	SWITCH, PUSH (1 KEY)	
R1275	1-215-750-91	METAL 3.3K 5% 1/6W		S1407	1-554-804-11	SWITCH, PUSH (1 KEY)	
R1276	1-215-752-91	METAL 3.9K 5% 1/6W		S1408	1-554-804-11	SWITCH, PUSH (1 KEY)	
R1277	1-215-104-81	METAL 10 5% 1/4W		S1409	1-554-804-11	SWITCH, PUSH (1 KEY)	
R1278	1-215-762-91	METAL 10K 5% 1/6W		S1411	1-554-804-11	SWITCH, PUSH (1 KEY)	
R1279	1-215-144-00	METAL 470 5% 1/4W		S1413	1-554-824-11	SWITCH, PUSH (1 KEY)	
R1280	1-215-754-91	METAL 4.7K 5% 1/6W		*****			
R1281	1-215-754-91	METAL 4.7K 5% 1/6W		*1-617-746-11	H2 BOARD		
R1282	1-215-762-91	METAL 10K 5% 1/6W			*****		
R1283	1-215-786-91	METAL 100K 5% 1/6W		DIODE			
R1284	1-215-168-00	METAL 4.7K 5% 1/4W		D01	8-719-800-94	DIODE TLUR144	
R1285	1-215-730-91	METAL 470 5% 1/6W		*4-380-613-01	HOLDER (A), LED; D01		
R1286	1-215-730-91	METAL 470 5% 1/6W		D02	8-719-812-41	DIODE TLR124	
*****				*4-337-478-00	HOLDER (F), LED; D02		
*1-617-747-11	H1 BOARD			D03	8-719-812-41	DIODE TLR124	
	*****			*4-337-478-00	HOLDER (F), LED; D03		
CAPACITOR				D04	8-719-812-41	DIODE TLR124	
C1401	1-123-356-00	ELECT 10MF 20% 16V		*4-337-478-00	HOLDER (F), LED; D04		
CONNECTOR				D05	8-719-812-41	DIODE TLR124	
CN1401	1-507-806-00	JACK		*4-337-478-00	HOLDER (F), LED; D05		
H1	*1-564-886-11	PLUG, CONNECTOR 9P		D06	8-719-911-19	DIODE 1SS119	
H2	*1-564-887-11	PLUG, CONNECTOR 10P		D07	8-719-911-19	DIODE 1SS119	
H3	*1-564-883-11	PLUG, CONNECTOR 6P		IC			
DIODE				IC01	8-741-138-70	IC BX1387	
D1401	8-719-812-41	DIODE TLR124		*****			
*4-380-621-01	HOLDER (B), LED; D1401			MISCELLANEOUS			
RESISTOR					*****		
R1401	1-215-776-91	METAL 39K 5% 1/6W		L901	1-426-280-11	COIL, DEMAGNETIZATION	
R1402	1-215-770-91	METAL 22K 5% 1/6W		1-451-290-11	DEFLECTION YOKE (SY-153F)		
R1406	1-215-144-00	METAL 470 5% 1/4W		1-452-032-00	MAGNET, DISK; 10MM Ø		
R1407	1-215-144-00	METAL 470 5% 1/4W		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø		
R1408	1-215-754-91	METAL 4.7K 5% 1/6W		1-452-277-00	MAGNET, BMC		
R1409	1-215-746-91	METAL 2.2K 5% 1/6W		1-503-642-11	SPEAKER		
VARIABLE RESISTOR				1-551-270-31	CORD, POWER		
RV1401	1-230-916-11	RES, VAR, CARBON 10K		1-554-762-21	SWITCH, PUSH (AC POWER)(1 KEY)		
RV1402	1-230-916-11	RES, VAR, CARBON 10K		*1-558-539-11	CABLE, P-P		
RV1403	1-230-916-11	RES, VAR, CARBON 10K		1-563-204-11	SOCKET, ANTENNA (PAL/SECAM)		
RV1405	1-230-916-11	RES, VAR, CARBON 10K		RV901	1-237-286-11	RESISTOR ASSY, HIGH-VOLTAGE	
RV1406	1-230-916-11	RES, VAR, CARBON 10K		T802	1-439-387-21	TRANSFORMER ASSY, FLYBACK	
SWITCH				V901	8-736-954-05	CRT (A51JKQ60X)	
S1401	1-554-804-11	SWITCH, PUSH (1 KEY)					

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

ACCESSORIES AND PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
A-1470-744-A	COMMANDER ASSY (RM-664)	
4-377-015-01	BAG, PROTECTION	
*4-380-602-01	CUSHION (UPPER) (ASSY)	
*4-380-603-01	CUSHION (LOWER) (ASSY)	
*4-380-604-01	INDIVIDUAL CARTON	
4-482-253-71	MANUAL, INSTRUCTION	

SONY

TRINITRON® COLOR TV


KV-21XRD/21XRTD


RM-664







AEP Model

KV-21XRD
Chassis No. SCC-784A-A
KV-21XRTD
Chassis No. SCC-784C-A
SX CHASSIS

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

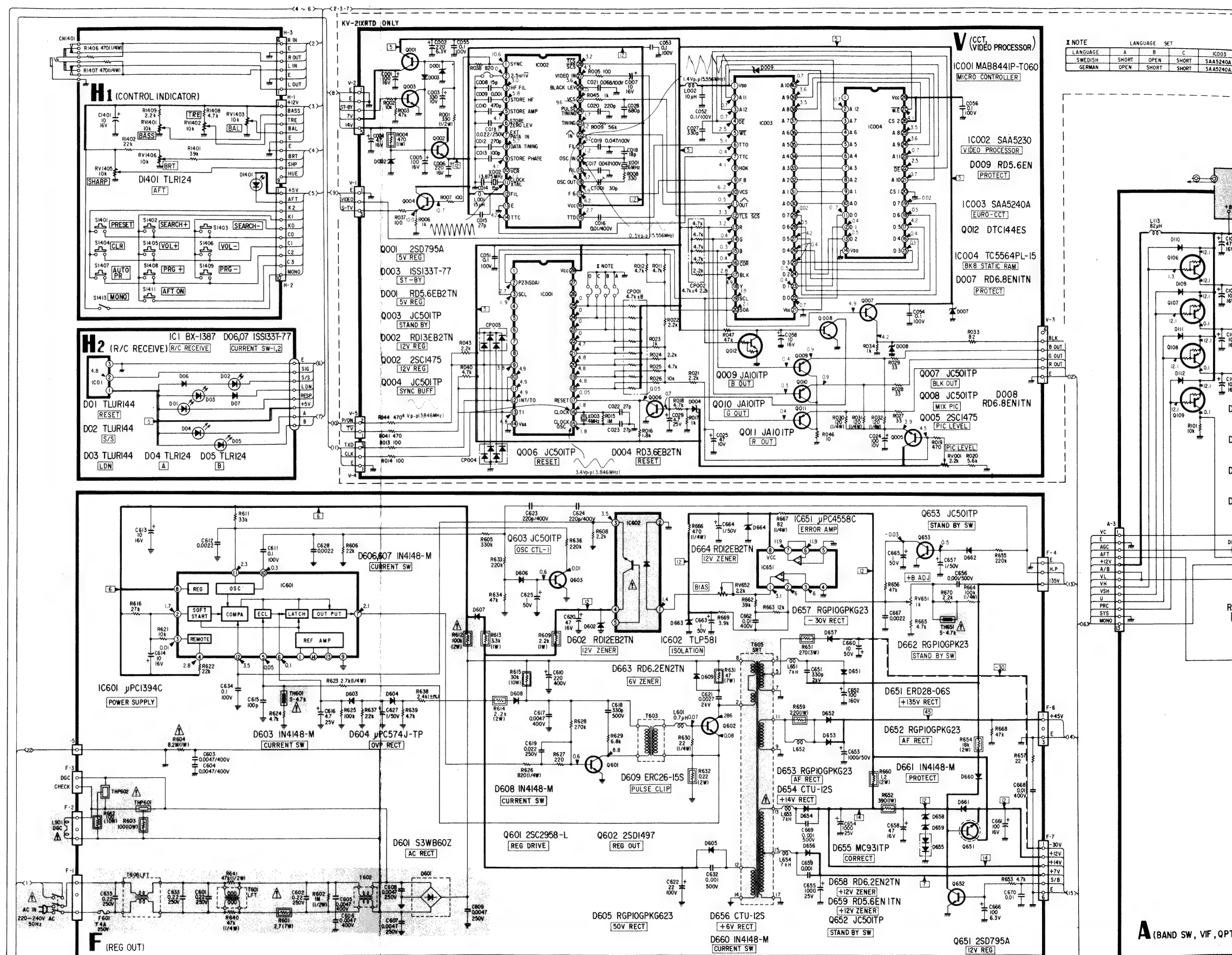
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics.
 - All resistors are in ohms, 1/6W unless otherwise noted. k: 1000 Ω ; M: 1000k Ω .
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - : nonflammable resistor.
 - : fusible resistor.
 - : internal component.
 - : panel designation.
 - : adjustment for repair.
 - All voltage are in V.
 - : B + bus.
 - - -: B - bus.
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken with a 10M Ω digital multimeter.
 - Readings are taken with a color-bar signal input.
 - Voltage variations may be noted due to normal production tolerances.
 - : signal path.

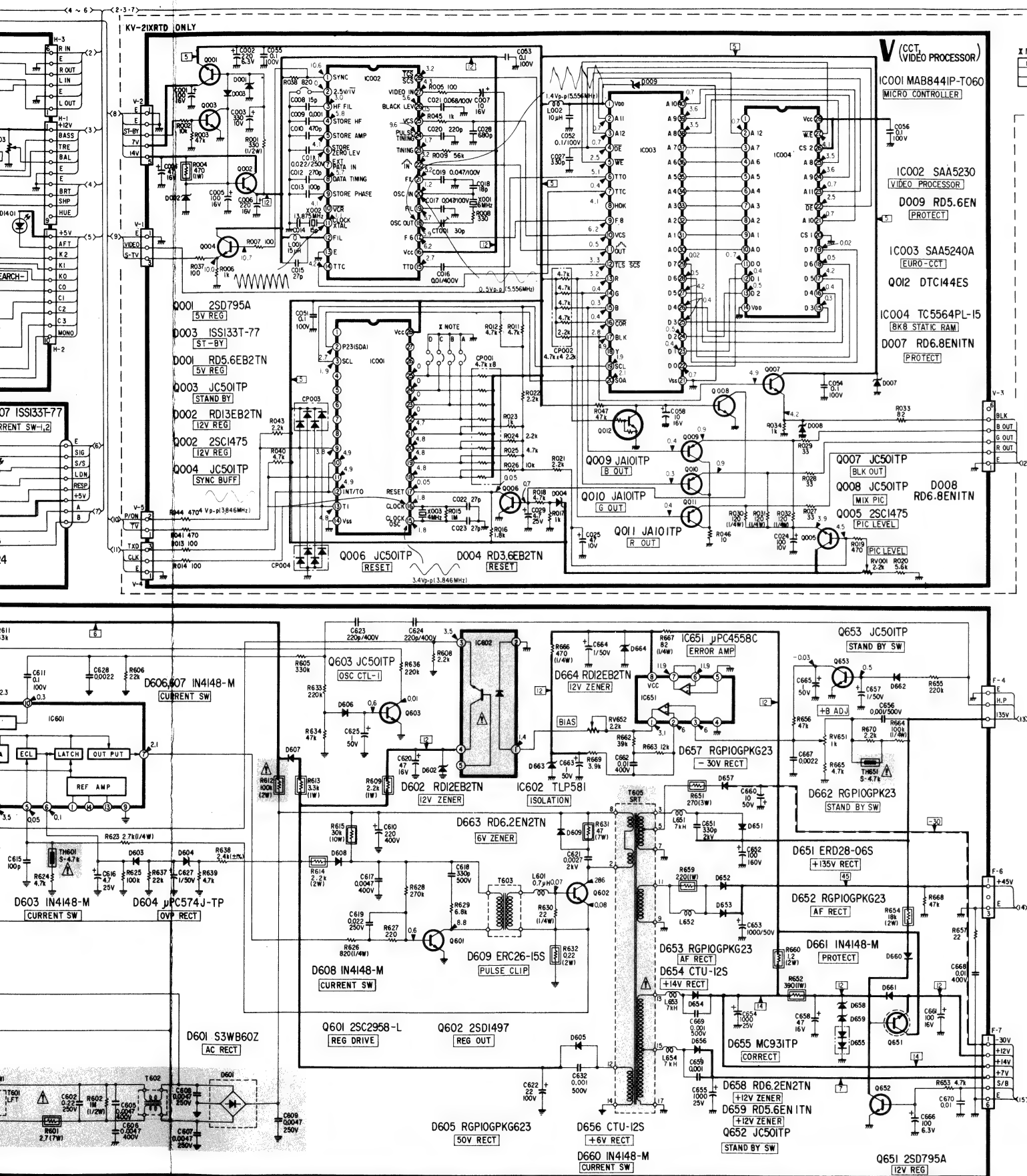
CIRCUIT BOARDS LOCATION

SCHEMATIC DIAGRAM

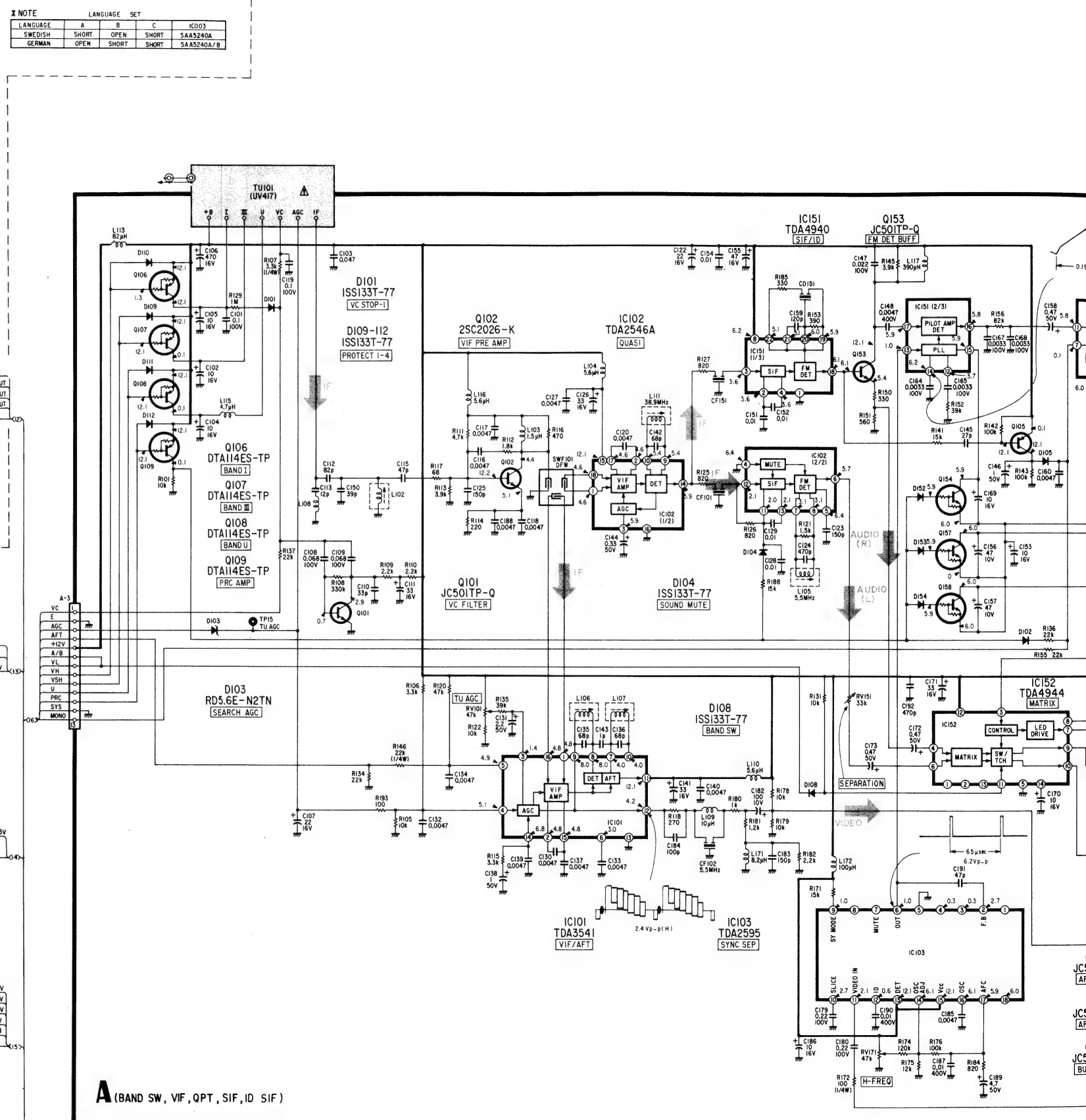
THIS SCHEMATIC DIAGRAM IS KV-21XRTD.
V BOARD IS NOT USE KV21XRD.



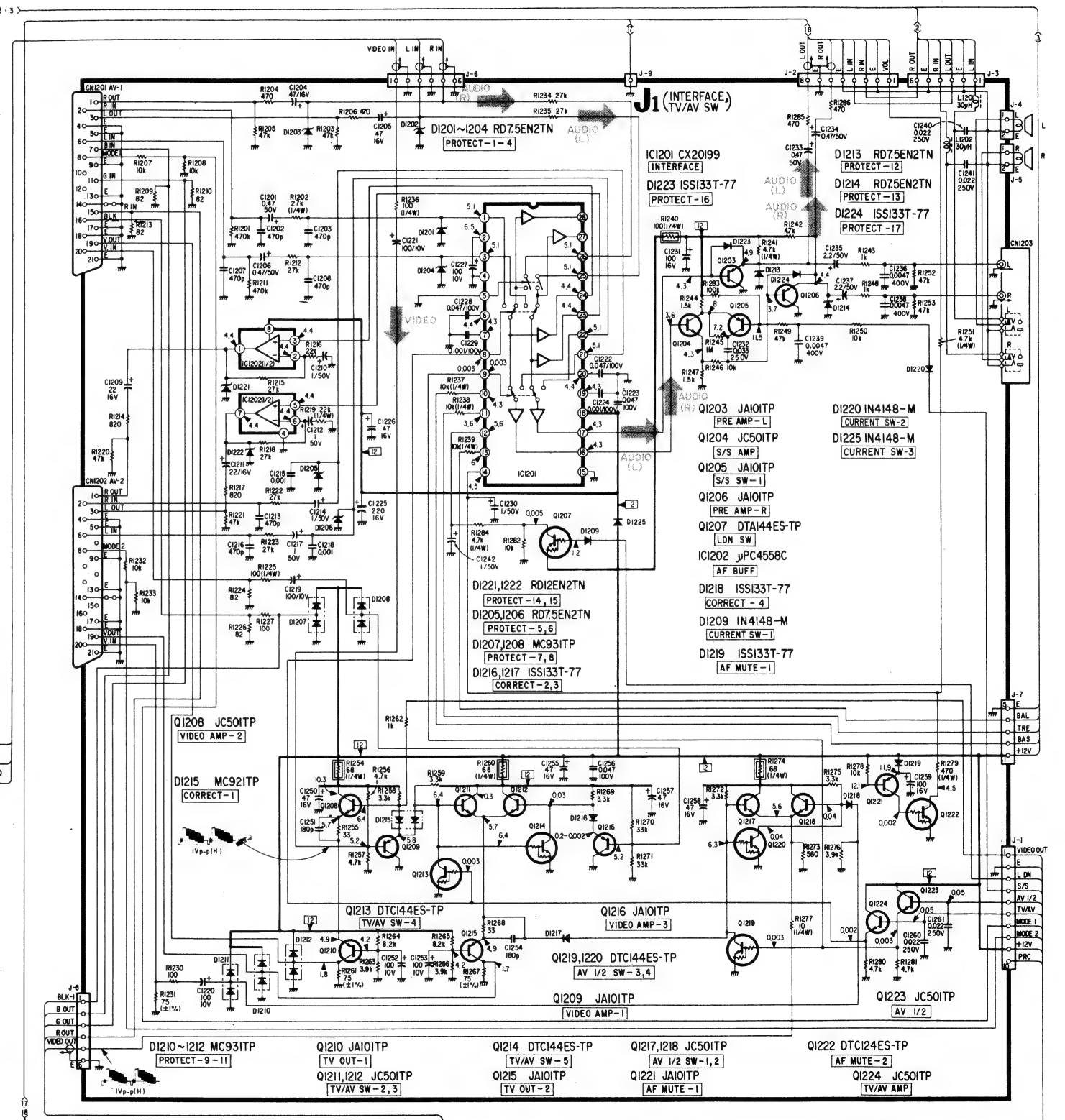
**THIS SCHEMATIC DIAGRAM IS KV-21XRTD.
V BOARD IS NOT USE KV21XRD.**

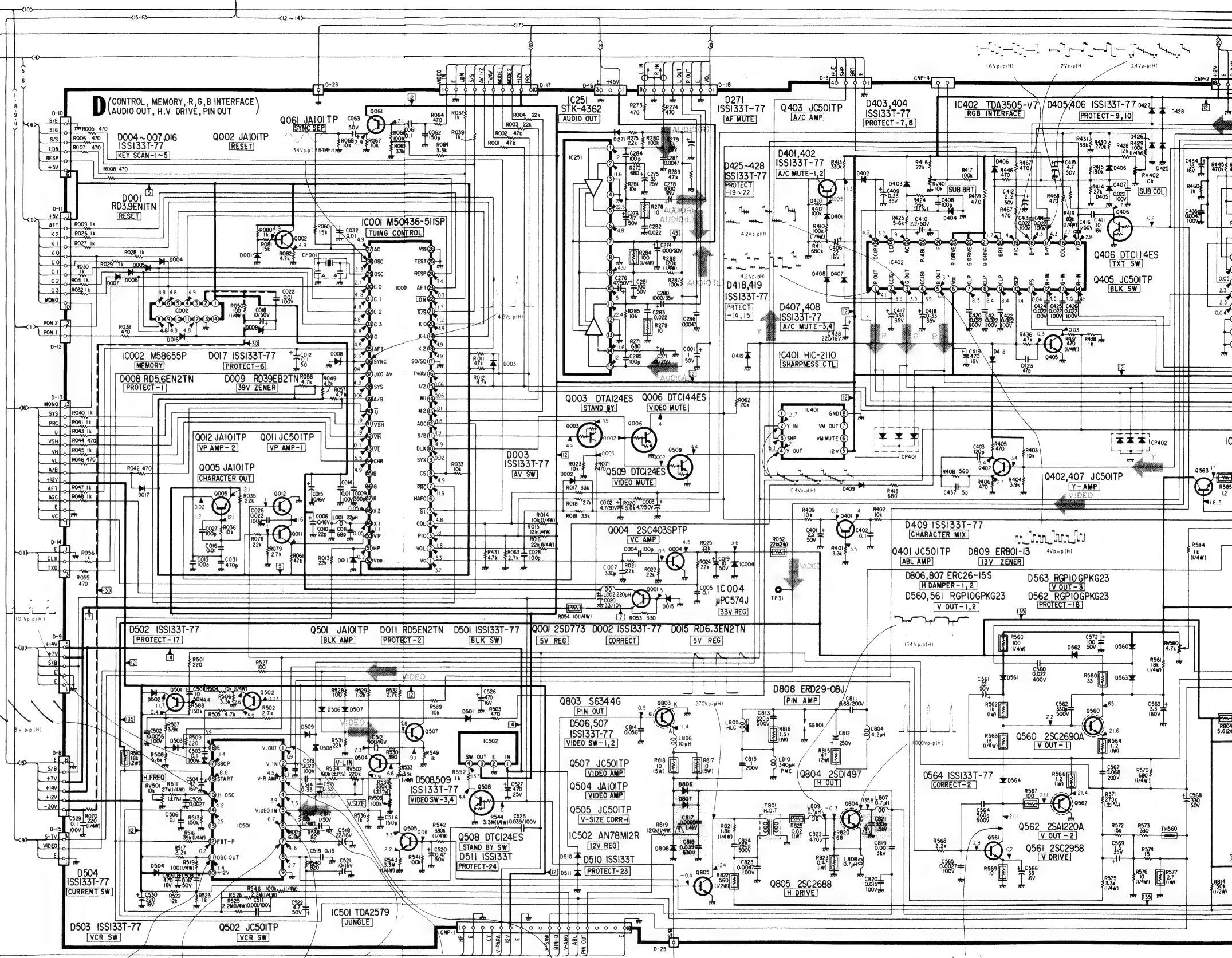
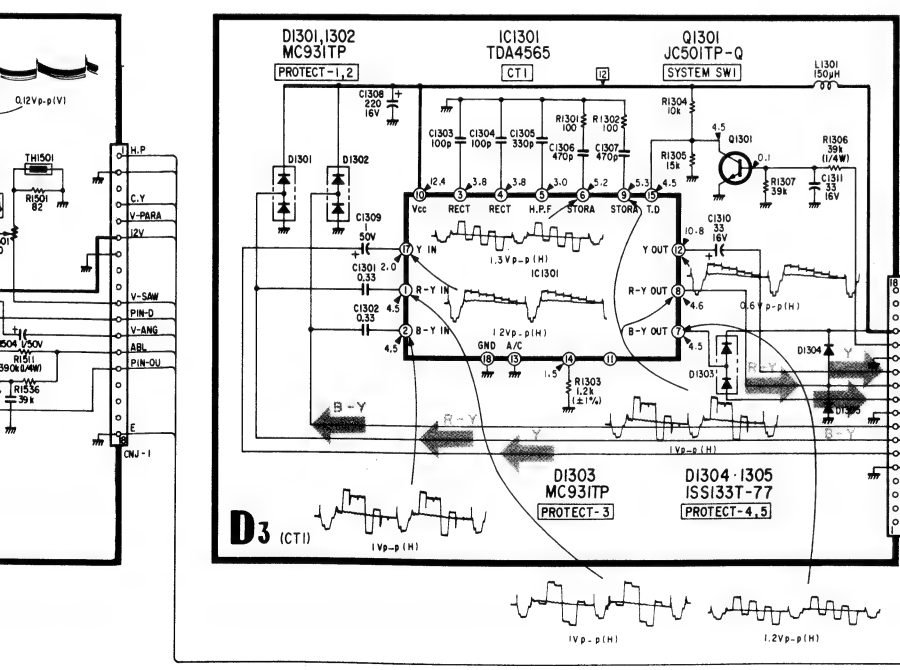
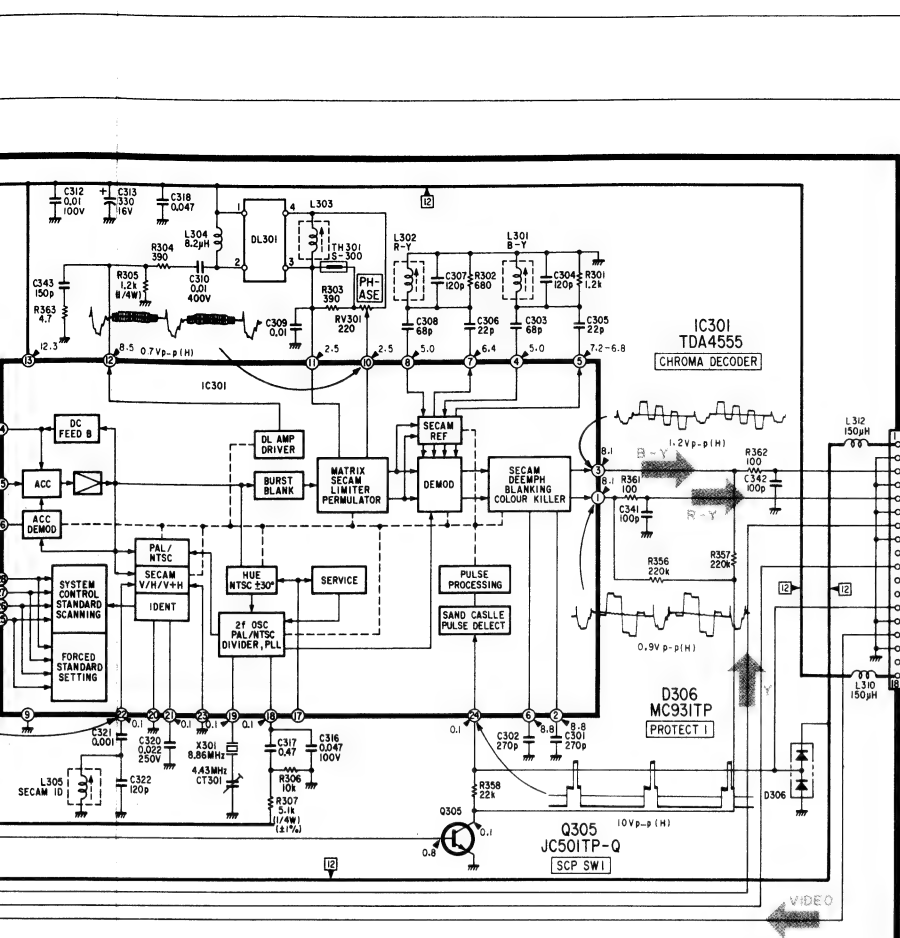


X NOTE LANGUAGE SET				
LANGUAGE	A	B	C	IC003
SWEDISH	SHORT	OPEN	SHORT	SAAS240A
GERMAN	OPEN	SHORT	SHORT	SAAS240A



SIF, ID SIF)

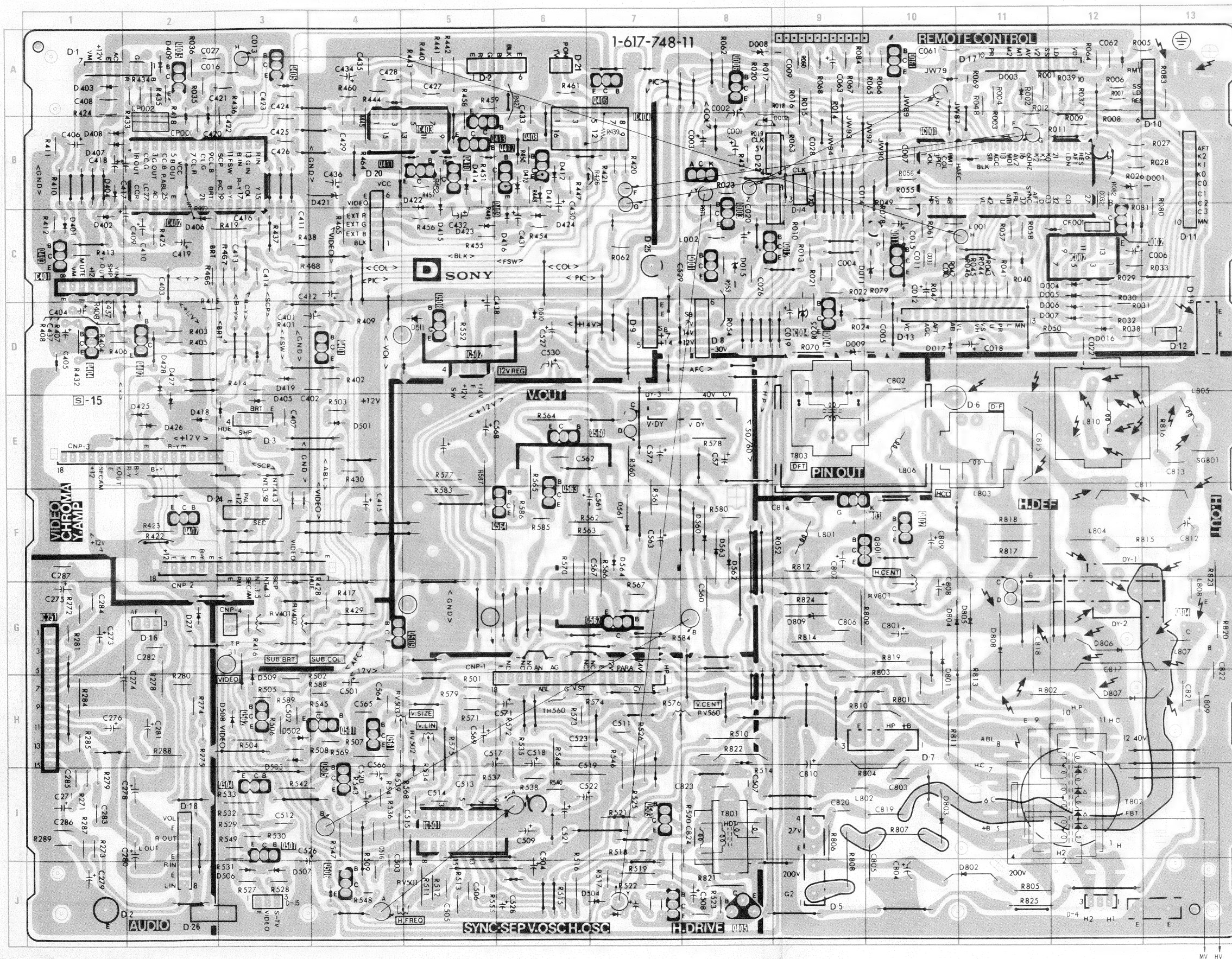






D

Note: All mounting diagrams are viewed from conductor side.



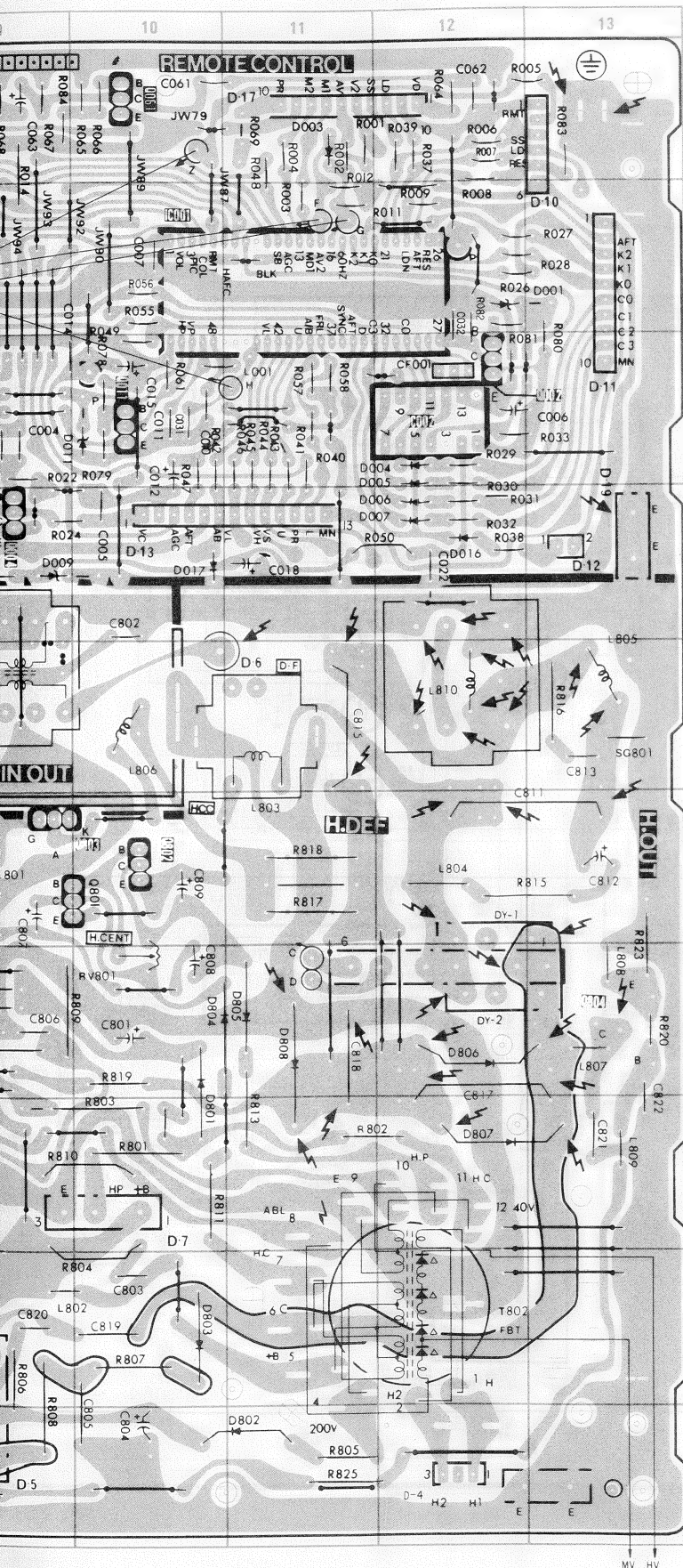
D

CAPACITOR		C434 C435 C436 C437 C438	A-4 A-4 B-4 D-1 D-5	CONNECTOR		D503 D504 D506 D507 D508	H-3 J-7 J-3 J-3 H-3
C001 C002 C003 C004 C005	B-8 B-8 B-8 C-9 D-10	C501 C502 C503 C504 C505	H-4 H-3 J-4 J-6 J-5	CNP1 CNP2 CNP3 CNP4 D1	H-6 F-2 E-1 G-3 A-1	D509 D510 D560 D561	H-3 D-6 F-8 F-7
C006 C007 C009 C010 C011	C-12 B-10 A-9 C-10 C-10	C506 C507 C508 C509 C511	J-5 I-8 J-8 I-6 H-7	D2 D3 D4 D5 D6	A-5 E-3 J-12 J-9 E-11	D562 D563 D564 D801 D802	F-8 F-8 F-7 G-10 J-11
C012 C013 C014 C015 C016	C-10 A-3 C-10 C-10 A-3	C512 C513 C514 C515 C516	I-3 I-5 I-5 I-5 J-4	D7 D8 D9 D10 D11	H-10 D-8 D-7 A-13 B-13	D803 D804 D805 D806 D807	I-10 G-10 G-11 G-12 H-12
C018 C019 C020 C022 C026	D-11 D-9 C-8 D-12 C-8	C517 C518 C519 C520 C521	H-5 H-6 I-6 I-4 I-6	D12 D13 D14 D15 D16	D-13 D-10 B-9 J-3 G-2	D808 D809	G-11 G-9
C027 C028 C031 C032 C061	A-2 B-9 C-10 B-12 A-10	C522 C523 C526 C527 C528	I-6 H-6 J-3 D-6 J-6	D17 D18 D19 D20 D21	A-11 I-2 D-13 B-4 A-6	IC	
C062 C063 C271 C273 C274	A-12 A-9 I-1 G-1 H-1	C529 C530 C560 C561 C562	C-8 D-6 G-8 F-7 E-6	D22 D24 D25 D26 DY1	B-8 F-3 C-7 J-2 F-12	IC001 IC002 IC004 IC251 IC401	B-11 C-12 D-9 G-9 C-1
C275 C276 C278 C279 C280	G-1 H-1 I-2 J-1 I-2	C563 C564 C565 C566 C567	F-7 H-4 H-4 I-4 F-6	D26 DY1	J-2 F-12	IC402 IC403 IC404 IC501 IC502	B-2 B-5 B-7 I-5 D-5
C281 C282 C283 C284 C285	H-2 G-2 I-1 G-1 I-1	C568 C569 C570 C571 C572	E-5 H-5 E-8 H-6 E-7	DIODE		MODULE	
C286 C287 C401 C402 C403	I-1 F-1 D-4 D-4 D-2	C801 C802 C803 C804 C805	G-10 D-10 I-10 J-10 J-10	D001 D002 D003 D004 D005 D006	B-12 B-8 A-11 C-12 C-12 D-12	COIL	
C404 C405 C406 C407 C408	D-1 D-1 B-1 E-3 A-1	C806 C807 C808 C809 C810	G-9 F-9 G-10 F-10 I-9	D007 D008 D009 D011 D015	D-12 A-8 D-9 C-10 C-8	L001 L002 L401 L801 L802	C-11 C-8 D-2 F-9 I-9
C409 C410 C411 C412 C413	C-2 C-2 C-3 C-4 C-3	C811 C812 C813 C814 C815	F-13 F-13 E-13 F-9 E-11	D016 D017 D271 D401 D402	D-12 D-10 G-2 C-1 C-1	L803 L804 L805 L806 L807	E-11 F-12 E-13 E-10 G-13
C414 C415 C416 C417 C418	C-3 F-4 C-3 C-2 B-1	C817 C818 C819 C820 C821	G-12 G-11 I-10 I-9 H-13	D403 D404 D405 D406 D407	A-1 B-1 E-3 C-2 B-1	L808 L809 L810	G-13 H-13 E-12
C419 C420 C421 C422 C423	C-2 B-2 A-3 B-3 A-3	C822 C823 C824	H-13 I-8 I-8	TRANSISTOR		Q001 Q002 Q003 Q004 Q005	
C424 C425 C426 C427 C428	A-3 B-3 B-3 A-5 A-4	FILTER		D408 D409 D412 D413 D414	B-1 A-2 B-6 B-6 B-5	Q006 Q011 Q012 Q061 Q401	A-8 C-10 C-8 A-1C D-4
C429 C430 C431 C432 C433	B-4 C-6 C-6 C-5 B-6	CF001	C-12	D421 D422 D423 D424 D425	B-4 C-5 C-5 C-6 E-2	Q402 Q403 Q404 Q405 Q406	D-2 C-1 D-1 A-3 A-7
				D426 D427 D428 D501 D502	E-2 E-2 D-2 E-4 H-3	Q407 Q408 Q409	F-2 B-6 B-6

IC501 = I-5. RV501 = J-5

1. Connect a jumper to IC501 pin (5) and the ground.

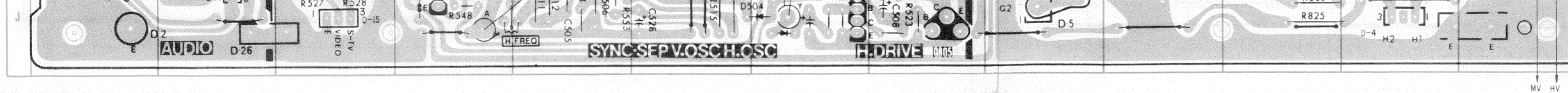
D



CAPACITOR		CONNECTOR		DIODE		MODULE		COIL		TRANSISTOR		THERMISTOR	
C001	B-8	C434	A-4	D503	H-3	Q410	B-5	R053	C-8	R437	C-3	R562	F-6
C002	B-8	C435	A-4	D504	J-7	Q411	B-5	R054	D-8	R438	C-3	R563	F-6
C003	B-8	C436	B-4	D506	J-3	Q412	B-5	R055	B-10	R440	A-5	R564	E-6
C004	C-9	C437	D-1	D507	J-3	Q413	B-5	R056	B-10	R441	A-5	R565	E-6
C005	D-10	C438	D-5	D508	H-3	Q501	H-4	R057	C-11	R442	A-5	R566	F-7
C006	C-12	C501	H-4	D509	H-3	Q502	H-3	R058	C-11	R443	A-5	R567	G-7
C007	B-10	C502	H-3	D510	D-6	Q503	I-7	R060	A-9	R444	A-4	R568	I-5
C008	A-9	C503	J-4	D560	F-8	Q504	I-3	R061	C-10	R445	B-4	R569	H-4
C009	A-9	C504	J-6	D561	F-7	Q505	I-4	R062	C-7	R447	B-6	R570	F-6
C010	C-10	C505	J-5	D562	F-8	Q506	J-4	R063	B-9	R448	B-6	R571	H-5
C011	C-10	C506	J-5	D563	F-8	Q507	I-3	R064	A-12	R449	B-5	R572	H-6
C012	C-10	C507	I-8	D564	F-7	Q508	D-5	R065	A-10	R450	B-6	R573	H-6
C013	A-3	C508	J-8	D801	G-10	Q509	G-4	R066	A-10	R451	B-5	R574	H-7
C014	C-10	C509	I-6	D802	J-11	Q560	E-6	R067	A-9	R452	B-5	R575	H-5
C015	C-10	C511	H-7	D803	I-10	Q561	H-4	R068	A-9	R454	C-6	R576	H-7
C016	A-3	C512	I-3	D804	G-10	Q562	G-7	R069	A-11	R455	C-5	R577	E-5
C018	D-11	C513	I-5	D805	G-11	Q563	F-6	R070	D-9	R456	C-5	R578	E-8
C019	D-9	C514	I-5	D806	G-12	Q564	F-6	R071	C-8	R457	B-5	R579	H-5
C020	C-8	C515	I-5	D807	H-12	Q801	F-10	R078	C-10	R458	B-5	R580	F-5
C022	D-12	C516	J-4	D808	G-11	Q802	F-10	R079	C-10	R459	A-5	R583	F-5
C026	C-8	C517	H-5	D809	G-9	Q803	F-9	R080	C-13	R460	A-4	R584	G-7
C027	A-2	C518	H-6	D809	G-9	Q804	G-13	R081	B-12	R461	A-6	R585	F-6
C028	B-9	C519	I-6	D809	G-9	Q805	J-8	R082	B-12	R464	B-4	R586	F-6
C031	C-10	C520	I-4	D809	G-9	Q805	J-8	R083	A-13	R465	C-4	R587	E-5
C032	B-12	C521	I-6	D809	G-9	Q805	J-8	R084	A-9	R468	C-4	R588	H-4
C061	A-10	C522	I-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C062	A-12	C523	H-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C063	A-9	C524	J-3	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C271	I-1	C525	J-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C273	G-1	C526	J-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C274	H-1	C527	J-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C275	G-1	C528	J-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C276	H-1	C529	C-8	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C278	I-2	C530	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C279	J-1	C531	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C280	I-2	C532	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C281	H-2	C533	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C282	G-2	C534	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C283	I-1	C535	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C284	G-1	C536	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C285	I-1	C537	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C286	I-1	C538	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C287	F-1	C539	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C401	D-4	C540	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C402	D-4	C541	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C403	D-2	C542	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C404	D-1	C543	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C405	D-1	C544	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C406	B-1	C545	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C407	E-3	C546	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C408	A-1	C547	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C409	C-2	C548	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C410	C-2	C549	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C411	C-3	C550	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C412	C-4	C551	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C413	C-3	C552	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C414	C-3	C553	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C415	F-4	C554	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C416	C-3	C555	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C417	C-2	C556	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C418	B-1	C557	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C419	C-2	C558	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C420	B-2	C559	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C421	A-3	C560	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C422	A-3	C561	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C423	A-3	C562	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C424	A-3	C563	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C425	B-3	C564	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C426	B-3	C565	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C427	A-5	C566	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C428	A-4	C567	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C429	B-4	C568	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C430	C-6	C569	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C431	C-6	C570	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C432	C-5	C571	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C433	B-6	C572	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C434	A-4	C573	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C435	A-4	C574	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C436	B-4	C575	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C437	D-1	C576	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C438	D-5	C577	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C501	H-4	C578	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C502	H-3	C579	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C503	J-4	C580	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C504	J-6	C581	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C505	J-5	C582	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C506	J-5	C583	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C507	I-8	C584	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C508	J-8	C585	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C509	I-6	C586	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C511	H-7	C587	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C512	I-3	C588	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C513	I-5	C589	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C514	I-5	C590	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C515	I-5	C591	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C516	J-4	C592	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C517	H-5	C593	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C518	H-6	C594	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C519	I-6	C595	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C520	I-4	C596	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C521	I-6	C597	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C522	I-6	C598	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C523	H-6	C599	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C524	J-3	C600	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C525	J-6	C601	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C526	J-6	C602	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C527	J-6	C603	D-6	D809	G-9	Q805	J-8	R084	A-9	R501	H-5	R589	H-3
C528	J-6												

KV-21XRD/21XRTD/RM-664

				THERMISTOR			
				TH560 H-6			
				CONDUCTOR SIDE			
				R439 B-7 R469 B-2 R553 J-5 D511 D-5			
410 B-5	R053 C-8	R437 C-3	R562 F-6				
411 B-5	R054 D-8	R438 C-3	R563 F-6				
412 B-5	R055 B-10	R440 A-5	R564 F-6				
413 B-5	R056 B-10	R441 A-5	R565 F-6				
501 H-4	R057 C-11	R442 A-5	R566 F-7				
502 H-3	R058 C-11	R443 A-5	R567 G-7				
503 I-7	R060 A-9	R444 A-4	R568 I-5				
504 I-3	R061 C-10	R445 B-4	R569 H-4				
505 I-4	R062 C-7	R447 B-6	R570 F-6				
506 J-4	R063 B-9	R448 B-6	R571 H-5				
507 I-3	R064 A-12	R449 B-5	R572 H-6				
508 D-5	R065 A-10	R450 B-6	R573 H-6				
509 G-4	R066 A-10	R451 B-5	R574 H-7				
510 E-6	R067 A-9	R452 B-5	R575 H-5				
511 E-6	R068 A-9	R454 C-6	R576 H-7				
512 E-6	R069 A-11	R455 C-5	R577 E-5				
513 E-6	R070 D-9	R456 C-5	R578 E-8				
514 E-6	R071 C-8	R457 B-5	R579 H-5				
515 E-6	R072 C-10	R458 B-5	R580 F-8				
516 E-6	R073 C-10	R459 A-5	R583 F-5				
517 E-6	R074 C-10						
518 E-6	R075 C-10						
519 E-6	R076 C-10						
520 E-6	R077 C-10						
521 E-6	R078 C-10						
522 E-6	R079 C-10						
523 E-6	R080 C-13	R480 A-4	R584 G-7				
524 E-6	R081 B-12	R461 A-6	R585 F-6				
525 E-6	R082 B-12	R464 B-4	R586 F-6				
526 E-6	R083 A-13	R465 C-4	R587 E-6				
527 E-6	R084 A-9	R468 C-4	R588 H-4				
528 E-6	R085 A-9	R501 H-5					
529 E-6	R086 A-9						
530 E-6	R087 A-9						
531 E-6	R088 A-9						
532 E-6	R089 A-9						
533 E-6	R090 A-9						
534 E-6	R091 A-9						
535 E-6	R092 A-9						
536 E-6	R093 A-9						
537 E-6	R094 A-9						
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540 E-6	R097 A-9						
541 E-6	R098 A-9						
542 E-6	R099 A-9						
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546 E-6	R103 A-9						
547 E-6	R104 A-9						
548 E-6	R105 A-9						
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628 E-6	R185 A-9						
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651 E-6	R208 A-9						
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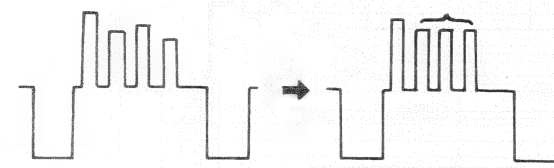
C429	C-6	D426	F-2	Q406	A-7
C430	C-6	D427	F-2		
C431	C-6	D428	D-2	Q407	F-2
C432	C-5	D501	F-4	Q408	B-6
C433	B-6	D502	H-3	Q409	B-6

SUB BRIGHT IC402 = B-2, RV401 = G-3

1. Receive a dot signal.
2. PICTURE control normal
COLOR control normal
BRIGHTNESS control center click
3. Connect an digital multimeter at pin (20) of IC402.
4. Adjust RV401 to 1.7V dc.

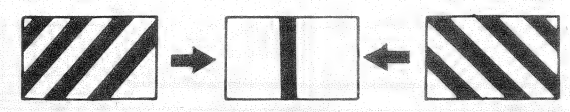
SUB COLOR ADJUSTMENT IC402 = B-2, RV402 = G-3

1. Receive a color bar signal.
2. PICTURE control normal
COLOR control normal
BRIGHTNESS control center click
3. Connect an oscilloscope at pin (17) of IC402.
4. Adjust RV402 so that same level as shown.



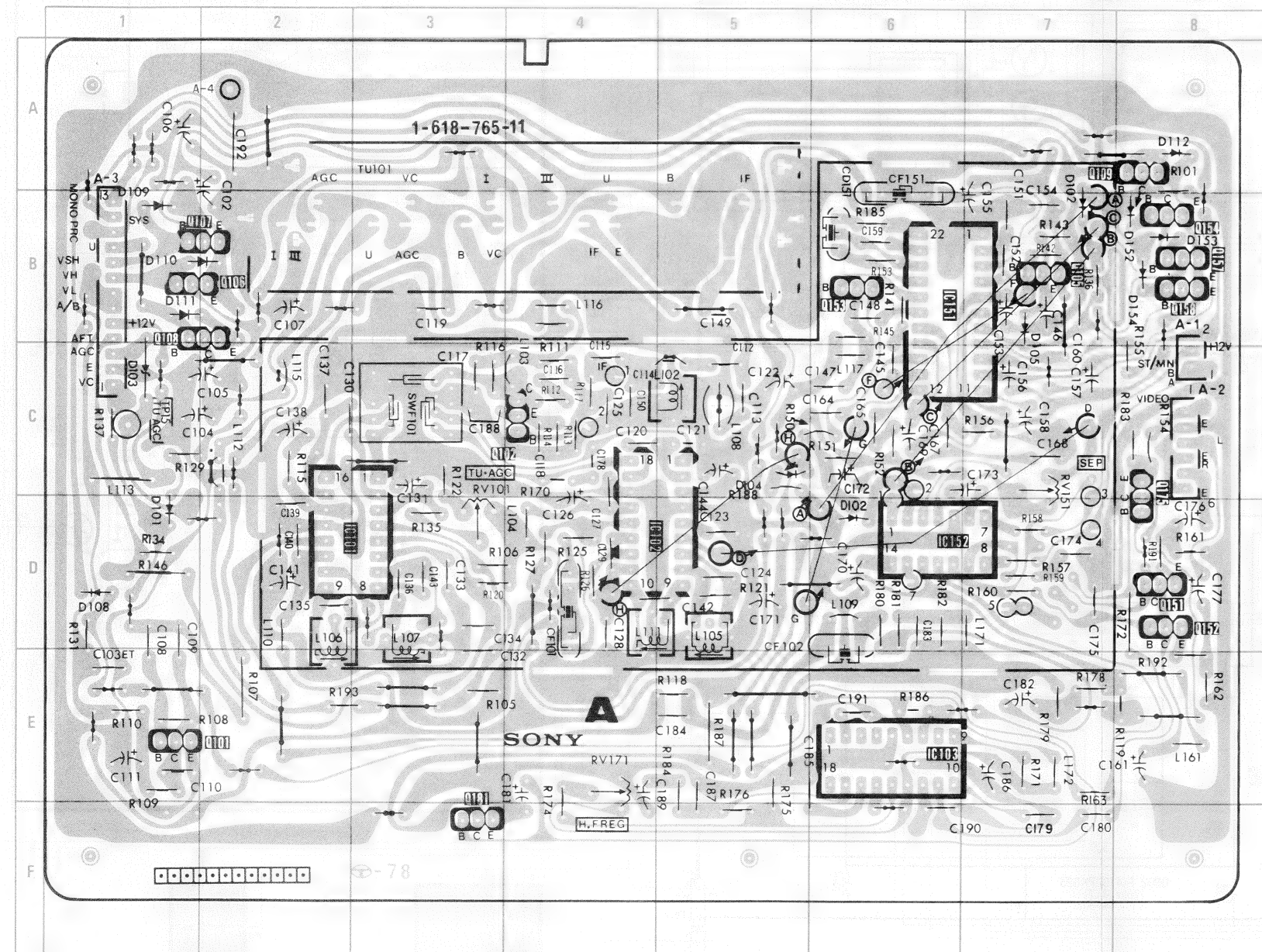
H FREQUENCY IC501 = I-5, RV501 = J-5

1. Connect a jumper to IC501 pin (5) and the ground.
2. Adjust H FREQUENCY VR (RV501) for stable picture.

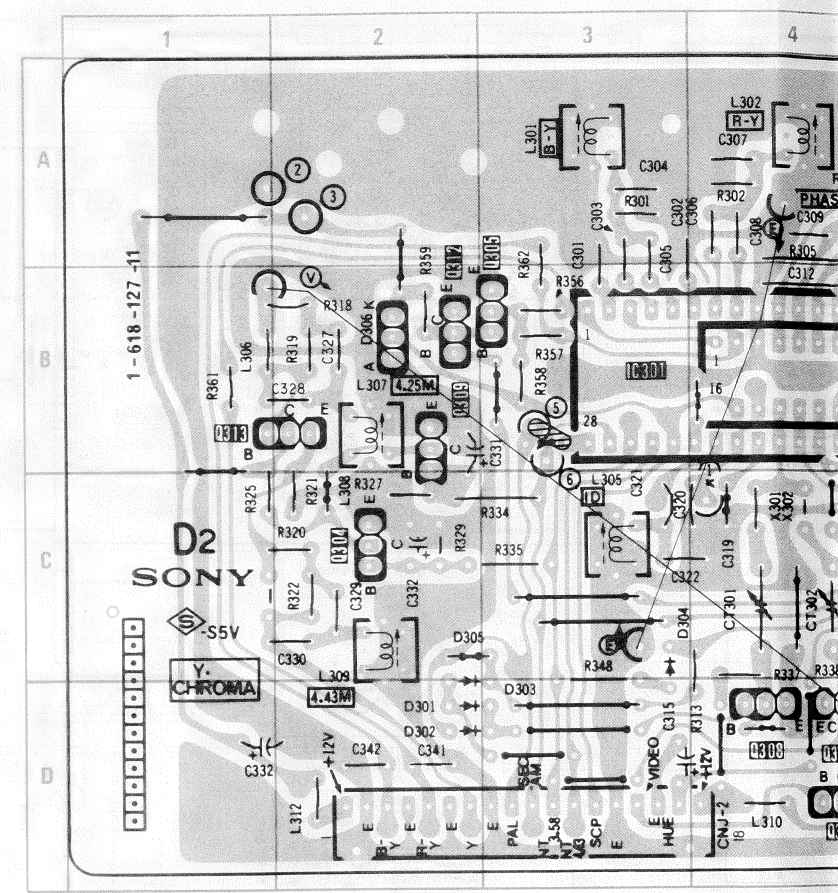


3. After completing this adjustment, disconnect a jumper wire from D board.

A [BAND SW, VIF, QPT, SIF, ID SIF]



D2 [CHROMA DECODER]



REF OSC IC301 = B-3, CT301 = C-4

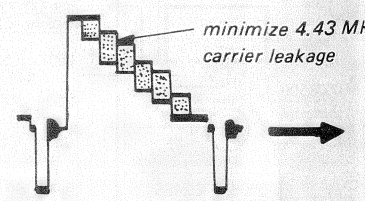
1. Receive a color bar signal.
2. Ground pin (1) of IC301 and turn color killer OFF.
3. Adjust CT301 so that the movement of picture on the CRT becomes the slowest.

1H DELAY LINE IC301 = B-3, L303 = A-5, RV301 = A-5

1. Receive a color bar signal.
2. Observe the pin (3) IC301 waveform on the oscilloscope, and adjust so that the chroma component becomes minimum with L303.
3. Get tracking with both L303 and RV301 as shown.

Y TRAP CNJ-2 = D-3, L303

1. Receive a color bar signal.
2. Observe the pin (7) CNJ-2 waveform and adjust L303 for minimum 4.43 MHz carrier leakage.



TU. AGC RV101 = D-3

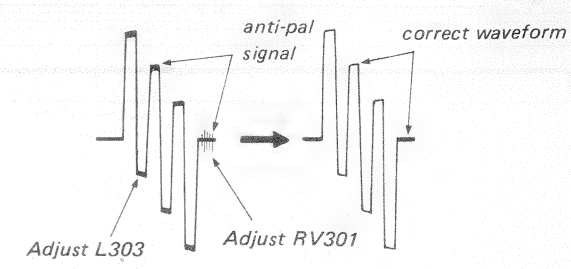
1. Tune in an off-air signal.
2. Adjust RV101 so that snow-noise and cross-modulation just disappear from picture.

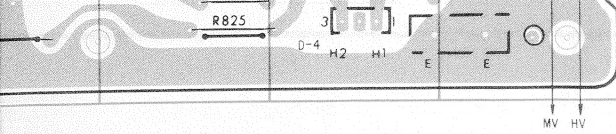
SEPARATION ADJUSTMENT IC152 = D-6, RV151 = C-7

1. Receive a stereo signal (L-CH 1kHz, R-CH 400Hz).
2. Confirm the stereo indicator.
3. Confirm the output 1kHz signal at pin (9) of IC152.
4. Adjust RV151 so that minimum 1kHz signal at pin (10) of IC152.

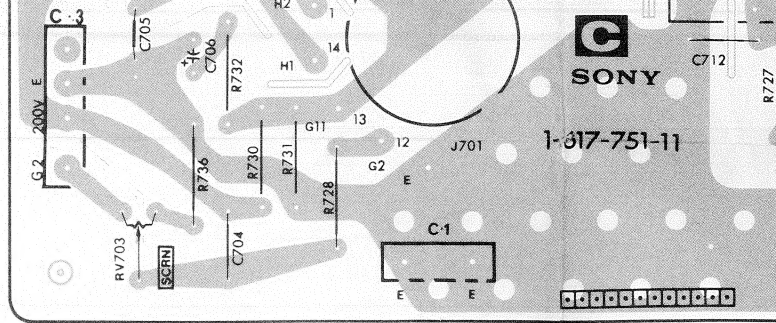
SIF ADJUSTMENT L105 = D-5

1. Tune in an off-air signal.
2. Adjust L105 for maximum clear-sound.



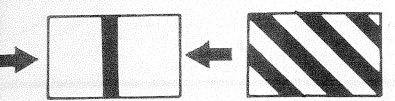


C430	C431	C432	C433	D426	D427	D428	D429	D501	D502	Q406	Q407	Q408	Q409	F-2	F-2	F-2	F-2	F-2	F-2	A-7	B-6	B-6	A-11	C-10	D-12	F-9	A-2	A-3	R435	R436	R552	R560	R561	D-5	F-7	F-7
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IC501 = I-5, RV501 = J-5

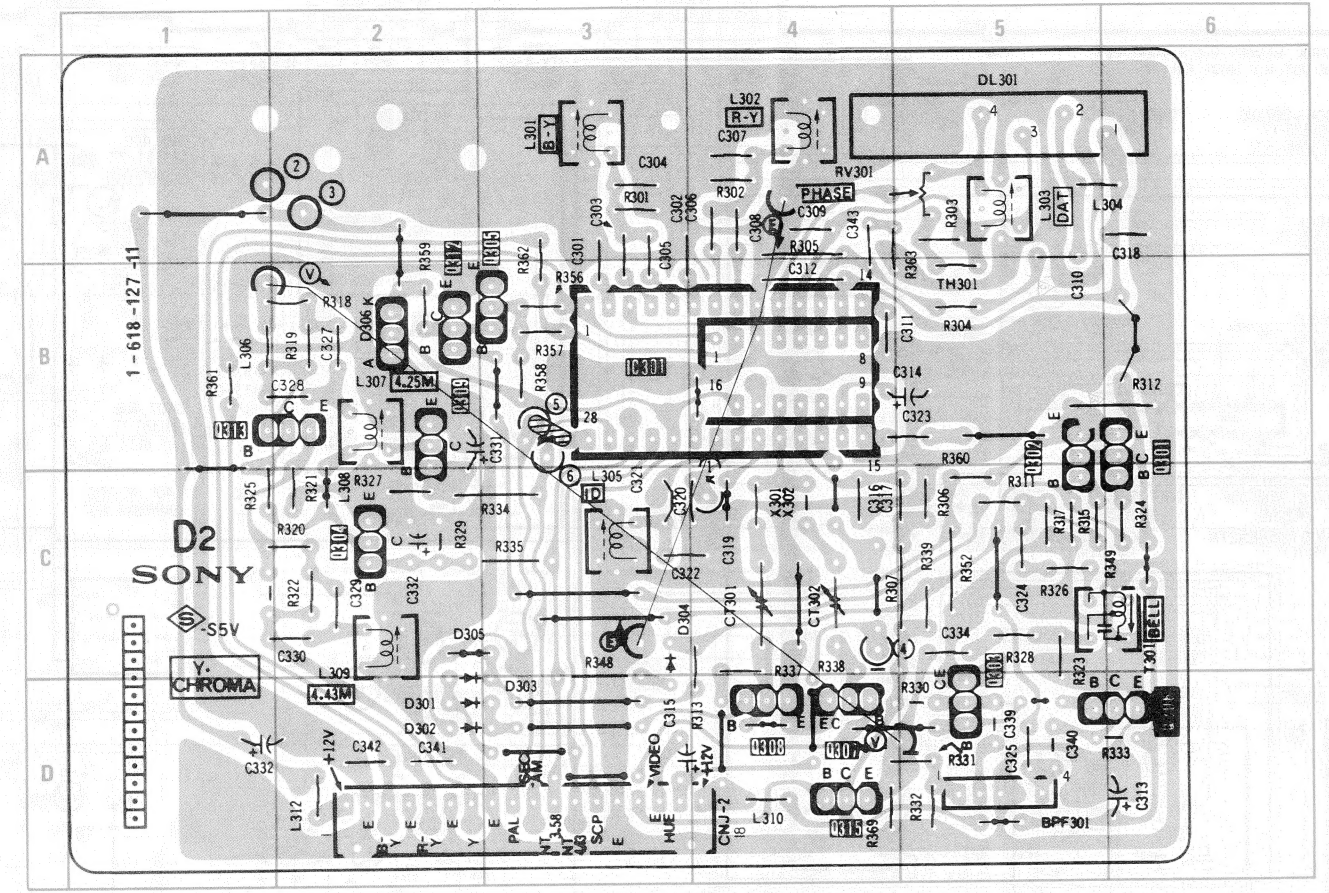
er to IC501 pin ⑤ and the ground.
QUENCY VR (RV501) for stable picture.

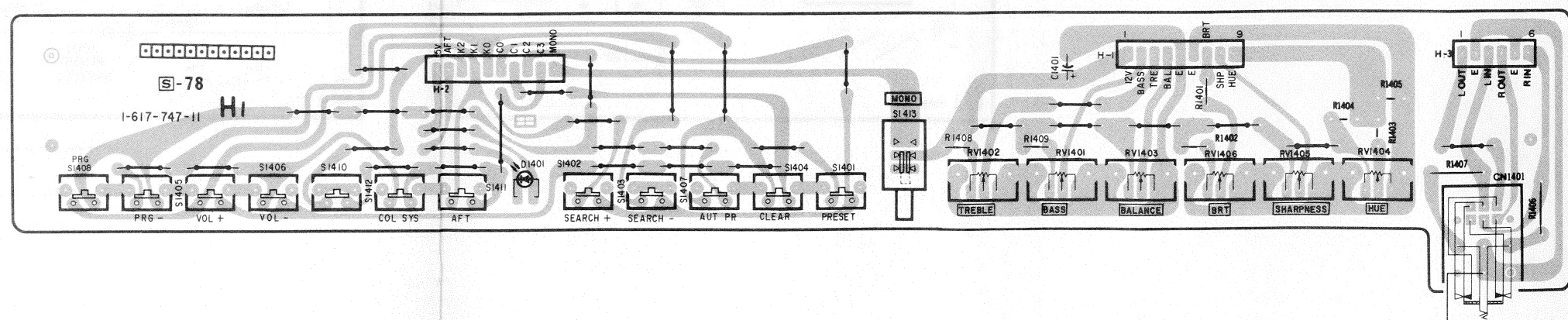


fo: suitable
(fo = 15,700 ± 25Hz)

ing this adjustment, disconnect a jumper
rd.

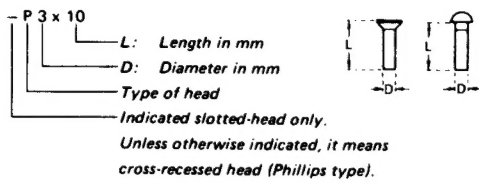
D2 [CHROMA DECODER]



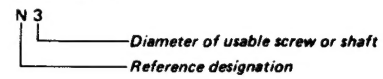














HARDWARE NOMENCLATURE














Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

